# TASK 210
# SUBSURFACE SITE INVESTIGATION REPORT
# VERNON MAINTENANCE FACILITY (2012 TANK REPLACEMENT AREAS)
# VERNON, CONNECTICUT

## ConnDOT Project Number: 170-1877

*Prepared for*

**State of Connecticut**
**Department of Transportation**
**Division of**
**Environmental Compliance**
**Bureau of Engineering and**
**Highway Operations**

Newington, Connecticut

*Prepared by*

Windsor, Connecticut

**July 2012**

# TASK 210
# SUBSURFACE SITE INVESTIGATION REPORT
# VERNON MAINTENANCE FACILITY (2012 TANK REPLACEMENT AREAS) VERNON, CONNECTICUT

**ConnDOT Project Number: 170-1877**

*Prepared for*

State of Connecticut Department of Transportation
Newington, Connecticut

*Prepared by*

TRC

Windsor, Connecticut

TRC Project No. 107307.003907.000210

ConnDOT Project No. 170-1877

July 2012

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# 1.0 INTRODUCTION

## 1.1 Overview

Pursuant to TRC's Connecticut Department of Transportation (ConnDOT) Contract for On-Call Environmental Services, TRC performed a Task 210 Subsurface Site Investigation at the ConnDOT Maintenance Facility located at 37 Campbell Avenue (referred to as the "site") in Vernon, Connecticut (Figure 1). Specifically, this investigation was conducted in the two areas of the site in which underground storage tanks (USTs) will be replaced in 2012.

## 1.2 Objectives

The primary objectives of this Task 210 site investigation were to:

- Determine soil and ground water quality in the area of the current heating fuel UST which will be decommissioned and replaced;
- Determine soil and ground water quality in the area of the current (and historic) gasoline and diesel USTs which will be decommissioned and replaced with above-ground tanks; and
- Utilize the data gathered to determine how best to manage soil and ground water during the tank replacement activities and whether a Task 310 Plans and Specifications is required for the impending construction activities.

The analytical results of the soil and ground water sampling conducted as part of this Task 210 have been compared to the numerical criteria set forth in Connecticut's Remediation Standard Regulations (RSRs) in order to determine the relative magnitude of impacts. This evaluation of the data will aid in managing the materials encountered during the construction activities.

## 1.3 Background

According to discussions held with ConnDOT personnel and a review of a proposed construction plan, ConnDOT is replacing three USTs that are currently installed at the Vernon Maintenance Facility at 37 Campbell Avenue in Vernon. The USTs slated for replacement include a 4,000-gallon fuel oil UST located near the eastern side of the maintenance building (which will be replaced with a 2,000-gallon fuel oil UST); a 6,000-gallon diesel fuel UST and a

6,000-gallon unleaded gasoline UST. These larger tanks are located on the southern side of a concrete apron (on which the fuel pump islands are also situated) which is located to the south of the maintenance building. A gasoline UST that was formerly present at the site (and was located near the present gasoline UST) is suspected to have leaked sometime prior to its removal.

TRC personnel conducted a site walkover at the facility on April 3, 2012 to locate any monitoring wells currently present at the site. Fifteen wells were identified at the site at that time, nine of which were believed to be leak detection wells as they are not installed to a depth at which ground water was observed across the site (approximately 15 feet below grade). Two of the leak detection wells are located in the vicinity of the 4,000-gallon heating fuel UST, five are located in the vicinity of the 6,000-gallon fuel tanks and two are located in the vicinity of an oil-water separator that is not due to be removed or replaced as part of this project. The six remaining wells appeared to be typical monitoring wells. The water level, depth to bottom and depth to product were obtained from three of these wells (access issues prevented the collection of measurements from the remaining wells). In addition, a bailer was used to make visual and olfactory observations of the water present within the wells that were accessible. In general, ground water was observed at approximately 15 feet below grade. No free product or sheens were noted on the water bailed from the wells that could be accessed, however, petroleum odors were noted in the samples (collected solely for observation) that were obtained from two of the wells that are present just to the east of the fueling island area (identified as wells MW-7 and MW-8 on Figure 2).

During subsequent trips to the site for drilling and surveying, additional wells were discovered. As discussed in further detail in Section 2.3, a deep monitoring well (assumed to be a bedrock well) was discovered to the northwest of well MW-8. This well was given the designation “MW-8BR”. In addition, a well was uncovered to the south/southeast of the maintenance building at the time of the survey. This well was given the designation “MW-16”.

## 1.4 Geologic/Physical Setting

As indicated by the Surficial Materials Map of Connecticut (Stone et al, 1992), the site is located in an area underlain by sand and gravel. Additional information provided on the mapping indicates that areas of sand and gravel are composed of mixtures of gravel and sand within individual layers and as alternating layers. The sand and gravel layers generally range

from 25 to 50 percent gravel particles and from 50 to 75 percent sand particles. This is inconsistent with anecdotal evidence that the sub-surface materials observed by ConnDOT personnel at the site during previous tank replacement projects are finer-grained in nature. The sub-surface conditions documented as part of this investigation indicated that in the areas of interest, the soil is primarily comprised of fine to medium sand with trace to little silt.

As indicated by the Geological Map of Connecticut (Rogers, 1985), the site is located within the Eastern Uplands. The sand and gravel at the site is underlain by Glastonbury gneiss, which is characterized as a gray, medium to coarse-grained, massive to well-foliated granitic gneiss.

The topography in the immediate project area can be characterized as generally flat. Ground water generally flows from high topographic points to low topographic points, but can also be heavily influenced by aquifer type, depth to bedrock, nearby watercourses, ground water use (withdrawal wells) and subsurface structures. Based on the local topography and features, ground water is anticipated to flow to the south / southeast, toward the Tankerhoosen River (a class A surface water body). According to CTDEEP ground water classification maps reviewed by TRC, ground water beneath the site is classified as “GA, may be impaired”.

## 2.0 TECHNICAL APPROACH

This section of the report summarizes the soil sampling and ground water techniques employed during the Task 210 field investigation. Observations made in the field are also summarized in this section. The Task 210 work performed at this site was completed in accordance with the document titled *Work Plan for Task 210 Subsurface Site Investigation: Vernon Maintenance Facility, Vernon, CT*, completed by TRC in May 2012.

The work plan proposed the collection of eleven soil samples (one soil sample from each of the eleven borings proposed) for laboratory analysis. The proposed soil boring / soil sampling locations were selected as follows to characterize the subsurface conditions at each of the UST areas; four soil borings were proposed (one on each side) around the fuel oil UST and seven soil borings were proposed in the area surrounding the fuel pump islands and 6,000-gallon diesel and gasoline USTs. Based on the presence of utilities in the immediate area of the maintenance building, only three soil borings were able to be advanced around the heating fuel tank. An additional soil boring was drilled in the area of the gasoline and diesel USTs. It was also anticipated, based on anecdotal information obtained from a ConnDOT employee that was present at the time of a previous tank removal from the area of the gasoline and diesel USTs, that additional borings may be necessary to delineate historic petroleum impacts. There was no need for the advancement of additional borings based on the field observations made during the drilling. Based on the presence of pea-stone backfill around the tanks, the soil borings were drilled further out from the tanks than originally anticipated. Figure 2 depicts a site plan which includes the soil boring locations.

A total of ten soil samples were collected (plus a duplicate soil sample). Note that a soil sample was not collected from soil boring SB-6 due to the lack of soil recovery at depth at this location. All soil samples were submitted to the laboratory for the following analyses: volatile organic compound (VOC) analysis by EPA Method 8260 (with Method 5035 field preservation), polynuclear aromatic hydrocarbon (PAH) analysis by EPA Method 8270, extractable total petroleum hydrocarbon (ETPH) analysis by the 2001 Connecticut Method and total lead by EPA Method 6010. All samples were analyzed by Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut.

## 2.1 Preliminary Activities

Prior to beginning the investigation, TRC marked the boring locations with white paint on the pavement. "Call Before You Dig" (CBYD) was contacted to mark the locations of buried utilities in the proposed work zones. In addition, a private utility mark-out service (Acumark of Ellington, Connecticut) was contracted to conduct a more detailed on-site mark-out given the presence of several utilities within the work areas. Preliminary activities also included the preparation of a Health and Safety Plan (HASP) to address the work to be completed as part of this Task 210.

## 2.2 Soil Boring Program

***Methodology***

A total of eleven soil borings were advanced on May 18, 2012 by Logical Environmental Solutions (LES) of Tolland, Connecticut, under direct supervision of TRC personnel. These borings were advanced utilizing a truck-mounted GeoProbe™. Soil cores were collected continuously from the ground surface to a maximum depth of sixteen feet below grade in order to reach the water table. Each four-foot soil core (collected in an acetate Macro-Core® liner) was logged with respect to soil characteristics (i.e., grain size, moisture content and any other physical characteristics) and indications of potential impacts (e.g., stains and odors). In addition, each core was field-screened using a photoionization detector (PID) prior to the collection of soil samples for analysis. Soil boring logs are presented in Appendix A. The initial criteria for selecting an interval from which to submit a soil sample for laboratory analysis were visual observations, olfactory observations and/or PID screening results. In the absence of obvious evidence of impacts based on the factors outlined above, the soil sample intervals were chosen based on the most likely interval for impacts (either a depth interval corresponding to the suspected bottom of the tank being investigated) or at the depth of the vadose zone.

Soil samples submitted to the laboratory for VOC analysis were collected in accordance with EPA Method 5035. This method outlines the collection of soil samples, without homogenization and with minimal disturbance, into extraction solvents. The remaining soil was

then placed in the appropriate laboratory-supplied sample containers and then placed on ice, in a cooler, for delivery to the laboratory. The remaining soils and drill cuttings were returned to their respective boreholes, as none exhibited evidence of gross contamination.

The probe tip and Macro-Core® were decontaminated between uses to minimize the potential for cross-contamination. The decontamination was completed by washing with an Alconox and tap water mixture, followed by a tap water rinse and a deionized water rinse.

***Field Observations***

Based on the descriptions of the soil cores, the site is underlain primarily by fine-to medium-grained sand with trace to little silt and varying amounts of coarse-grained sand and gravel. Soil boring SB-1 was drilled in close proximity to the heating oil tank grave and therefore, the soil cores were filled primarily with pea-stone placed around the tank when it was installed. Drilling refusal encountered in borings SB-2, SB-4 and SB-11 at depths of 11, 14 and 14.5 feet below grade, respectively. The cause of the drilling refusal at boring locations SB-2 and SB-4 appears to rock based on the red siltstone observed in the drive tip of the core. The cause of refusal at boring location SB-11 is not known. None of the soils encountered exhibited stains, odors or elevated PID readings. Consistent with the measurements recorded in the on-site monitoring wells in April 2012, ground water was encountered in a majority of the borings at depths ranging from approximately 12 to 16 feet below grade.

## 2.3 Ground Water Monitoring Well Development and Sampling

As previously mentioned, six monitoring wells were identified at the site by TRC during a previous site visits. An evaluation of the wells was conducted on May 17, 2012 while TRC personnel were on-site overseeing the private utility mark-out. The depth to water and depth to bottom of each well were gauged to assist in determining that the wells are viable. Each of the wells were then redeveloped using a surge block and pump. Fine-grained material around the well screen was drawn into the well and removed by agitating the well water with a surge block and simultaneously pumping water from the well using a centrifugal suction pump at a low discharge rate. A centrifugal pump outfitted with ASTM drinking water grade polyethylene tubing was used for removing the water from the well. The polyethylene tubing was replaced between each well.

A period of two weeks elapsed between well development and ground water sampling. Prior to the initiation of sampling activities, the water level in each monitoring well was measured to the nearest 0.01 foot with an electronic water sensing device and recorded in a field notebook. The water level indicator was decontaminated with deionized water prior to use in each well.

Sampling of each well was completed using a peristaltic pump outfitted with new silicon and polyethylene tubing (dedicated to each location to minimize the potential for cross-contamination) and a multi-parameter monitoring device attached to a flow-through cell. Field parameters, including pH, temperature, specific conductance, dissolved oxygen, turbidity, and oxidation/reduction conditions were monitored in accordance with low-flow purging and sampling procedures. Once the parameters stabilized to within the prescribed tolerances on three successive readings recorded at three to five-minute intervals, samples were collected directly into the appropriate laboratory-supplied containers. The ground water sampling sheets are included in Appendix B.

The ground water samples were analyzed for the same analytical parameters as the soil samples (VOCs, PAHs, ETPH and lead). All samples were submitted to Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut, following proper chain-of-custody procedures.

***Field Observations***

One to 30 gallons of water was purged from the six wells during the redevelopment activities. Well MW-1 was noted to pump dry almost immediately upon turning on the pump and would only yield approximately one gallon of water after allowing the well to recharge for 30 minutes. The remaining wells tended to go dry quickly, but also recharge quickly. Only the ground water pumped from wells MW-7 and MW-8 during development was noted to exhibit a strong petroleum odor and sheen. With the exception of well MW-1, the development water coming out of the wells was noted to be clear after purging at least 10 gallons.

On the day of the drilling program, another monitoring well was located to the northwest of well MW-8. Although it appeared to be abandoned, TRC personnel was successful in opening the well cover. The depth to water and depth to bottom of this well were measured and the well was found to be 78 feet deep. LES and TRC personnel determined that there was no product in

the well and in order to further evaluate it qualitatively, they pumped some water from the well from depths ranging from 20 to 35 feet below grade. The water evacuated from this well did not exhibit any odors or sheens.

The depth to water measured on the date of the sampling ranged from approximately 15 feet in the majority of the wells to approximately 19 feet in well MW-15. Ground water sample MW-1 was noted to be slightly turbid and ground water samples MW-7 and MW-16 were noted to be turbid. The ground water evacuated from all of the wells except MW-15 were noted to exhibit petroleum odors.

## 2.4 Quality Assurance / Quality Control Samples

Quality assurance/quality control (QA/QC) samples were collected as part of the Task 210 subsurface investigation.

In order to determine the effectiveness of the decontamination of the sampling equipment, field blank (rinsate) samples were collected and analyzed for the same analyses as the other samples submitted on the day of the sampling. The field rinsate blanks were collected by pouring laboratory-supplied water over or through the sampling equipment used in the collection of the samples. The rinsate water was then collected into the appropriate laboratory-supplied sample containers. The field blank sample associated with the soil sampling program was designated as “FB051812” and the one associated with the ground water sampling event was designated as “FB20120531”.

A trip blank was also submitted to the laboratory as part of the ground water sampling regimen for this project. An aqueous trip blank was prepared by the laboratory for the shipment of ground water samples submitted to the lab for VOC analysis. The trip blank was shipped with the sample containers from the lab and remained on ice in the cooler during the collection of the ground water samples. The trip blank sample was designated as “TB20120531”.

Duplicate samples are two separate samples taken from the same source. The procedure for collecting a duplicate sample consists of alternating the collection of the sample between the primary sample bottle and the duplicate bottle. The duplicate samples were assigned different sample numbers unknown to the laboratory responsible for the sample analysis. The duplicate soil sample collected as part of the soil sampling program was labeled as “SB-11A(12-14)” and

is a duplicate of soil sample SB-11A(12-14). The duplicate ground water sample of MW-15 was designated as "MW-20".

## 2.5 Site Survey

TRC personnel performed a relative elevation survey of the tops of the PVC casings of the wells at the site on May 25, 2012. This was conducted to allow for the generation of a ground water elevation contour map. The depth to ground water readings obtained during the May 31, 2012 ground water sampling event and the well elevations obtained during the survey were used to establish ground water contours across the site. A ground water contour map is presented in Figure 3.

## 3.0 INVESTIGATION RESULTS

The following section provides a summary of the analytical results of the soil and ground water sampling conducted at the site. Ten soil samples (plus one duplicate soil sample) were collected from eleven borings; the soil analytical results are summarized in Table 1. Six ground water samples were collected from existing monitoring wells previously installed by others at the site. The results of the ground water sampling are summarized in Table 2. All of the samples collected for this project were analyzed for VOCs, PAHs, ETPH and total lead. A copy of the laboratory reports is provided in Appendix C.

Although the project site is not subject to the Transfer Act, the Voluntary Cleanup Program, nor the requirements of a Consent Order, the analytical results are being compared to the Connecticut RSRs to evaluate the presence of contaminants within the investigated areas. This allows for management of contaminated media in a manner consistent with applicable regulations. The reported concentrations for soils are compared to the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC) under the RSRs. Specifically, the Residential Direct Exposure Criteria (RES DEC) and GA PMC are the criteria to which the soil concentrations are compared. The I/C criteria are not readily applicable at a site unless an Environmental Land Use Restriction (ELUR) is implemented.

The reported concentrations for ground water are compared to the Ground Water Protection Criteria (GWPC), the Surface Water Protection Criteria (SWPC) and the Residential Ground Water Volatilization Criteria (RES GWVC).

### 3.1 Soil Sample Results

A summary of the soil sample analytical results is presented in Table 1. Copies of the laboratory analytical reports for soil samples are included as Appendix C.

***VOCs***

As indicated in Table 1, VOCs were not detected at concentrations above the reporting limits in any of the soil samples collected as part of this investigation.

***PAHs***

As shown in the results summary in Table 1, PAHs detected above the reporting limit in three of the soil boring locations (SB-4, SB-7 and SB-11). Specifically, the reported PAH concentrations range from 250 parts per billion (ppb) in soil sample SB-4(12-14) to 730 ppb in soil sample SB-11A(12-14) (the duplicate soil sample of SB-11(12-14)).

None of the reported PAH concentrations exceed the RSR criteria.

***ETPH***

ETPH was not detected above the reporting limits in the soil samples collected as part of this Task 210 investigation.

***Total Lead***

Lead was detected in each of the soil samples collected as part of this investigation. Specifically, it was detected at concentrations ranging from 2.2 parts per million (ppm) in soil sample SB-9(10-12) to 5.54 ppm in soil sample SB-11A(12-14).

None of the reported total lead concentrations exceed the RSR criteria.

## 3.2 Ground Water Sampling Results

As indicated above, ground water sample analytical results are summarized in Table 2 and the laboratory data sheets are contained in Appendix C. Table 3 summarizes the well gauging results from the May 31, 2012 ground water sampling event.

***VOCs***

As shown in Table 2, VOCs were not detected in the ground water samples collected during the May 31, 2012 ground water sampling event.

***PAHs***

Two PAHs were detected in the ground water collected as part of the May 2012 sampling event. Specifically, phenanthrene was detected at a concentration of 0.15 ppb in ground water

sample MW-8 and benzo(a)anthracene was detected at a concentration of 0.06 ppb in ground water sample MW-16.

***ETPH***

ETPH was detected in only one of the monitoring wells sampled, monitoring well MW-8, at a concentration 0.42 ppm. This reported concentration exceeds the GWPC of 0.1 ppm which is not the criterion promulgated in the 1996 RSRs, but is the number that is widely considered the criterion based on changes to EPA's drinking water standards since the RSRs were promulgated.

***Total Lead***

As indicated in Table 2, total lead was detected in only one ground water sample; MW-16. The reported concentration of lead in this sample is 0.003 ppm, which is below the RSR criteria.

### 3.2.1 Ground Water Flow Direction

Ground water elevation contours were interpolated based on the water level measurements recorded on May 31, 2012 and are depicted on Figure 3. Based on the water table elevation data collected during ground water sampling, ground water appears to flow in a westerly direction. Note that there is very small flow gradient across the site.

## 3.3 Quality Assurance / Quality Control Sample Results

As indicated in Section 2.3, field rinsate blanks, duplicate samples and a trip blank were submitted to the laboratory as part of this sampling program for quality assurance / quality control purposes. The field rinsate blanks associated with the soil and ground water sampling did not exhibit any detectable concentrations of any constituents, indicating that the field equipment used for the sampling was fully decontaminated and had no influence on either the soil or ground water analytical results.

The concentrations of constituents reported in the duplicate soil sample SB-11A(12-14) varied from those detected in the original SB-11(12-14) soil sample. Specifically, there was one PAH detected in the original soil sample, whereas there were several detected in the duplicate

soil sample. This is likely due to the heterogeneity of soil samples or perhaps the need for better homogenization. Other than the PAH concentrations, the duplicate soil sample concentrations corresponded well. The duplicate ground water sample (MW-20) corresponded well with its associated sample (MW-15).

VOCs were not detected in the trip blank associated with this investigation.

## 4.0 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

This section briefly summarizes the findings of the Task 210 exploratory site investigation activities conducted at the site during May 2012. Also included are recommendations based on these findings/conclusions.

### 4.1 Soil

1. The soil borings drilled in the two tank replacement areas were advanced to a maximum depth of sixteen feet below grade. In general, the soils in this area of the site can be characterized as fine- to medium-grained sand with trace to little silt and varying amounts of coarse-grained sand and gravel.

2. VOCs and ETPH were not detected in the soil samples collected from these tank replacement areas. Low concentrations (relative to RSR criteria) of petroleum-related PAHs were detected in soil samples collected from borings SB-4, SB-7 and SB-11, indicating the likelihood of minimal petroleum impacts. In addition, lead was detected in each of the soil samples collected as part of this investigation. All of the reported concentrations are low relative to RSR criteria and given the similar concentrations reported for each of the soil samples, this likely represents background conditions.

   Recommendation: Based on the results of this investigation, TRC does not recommend that a full Task 310 Plans, Specifications, and Estimates be prepared at this time. Rather, it is recommended that a Notice To Contractor be prepared to notify the tank replacement contractor of the results of the investigation and despite the results, the potential presence of impacted materials immediately around the tanks to be removed.

### 4.2 Ground Water

1. Ground water was encountered at depths ranging from approximately 15 to 19 feet below grade during this investigation. It will most likely not be encountered during the construction activities.

   Recommendation: If it is determined during the construction activities that dewatering is necessary, it will need to be characterized for consistency with the

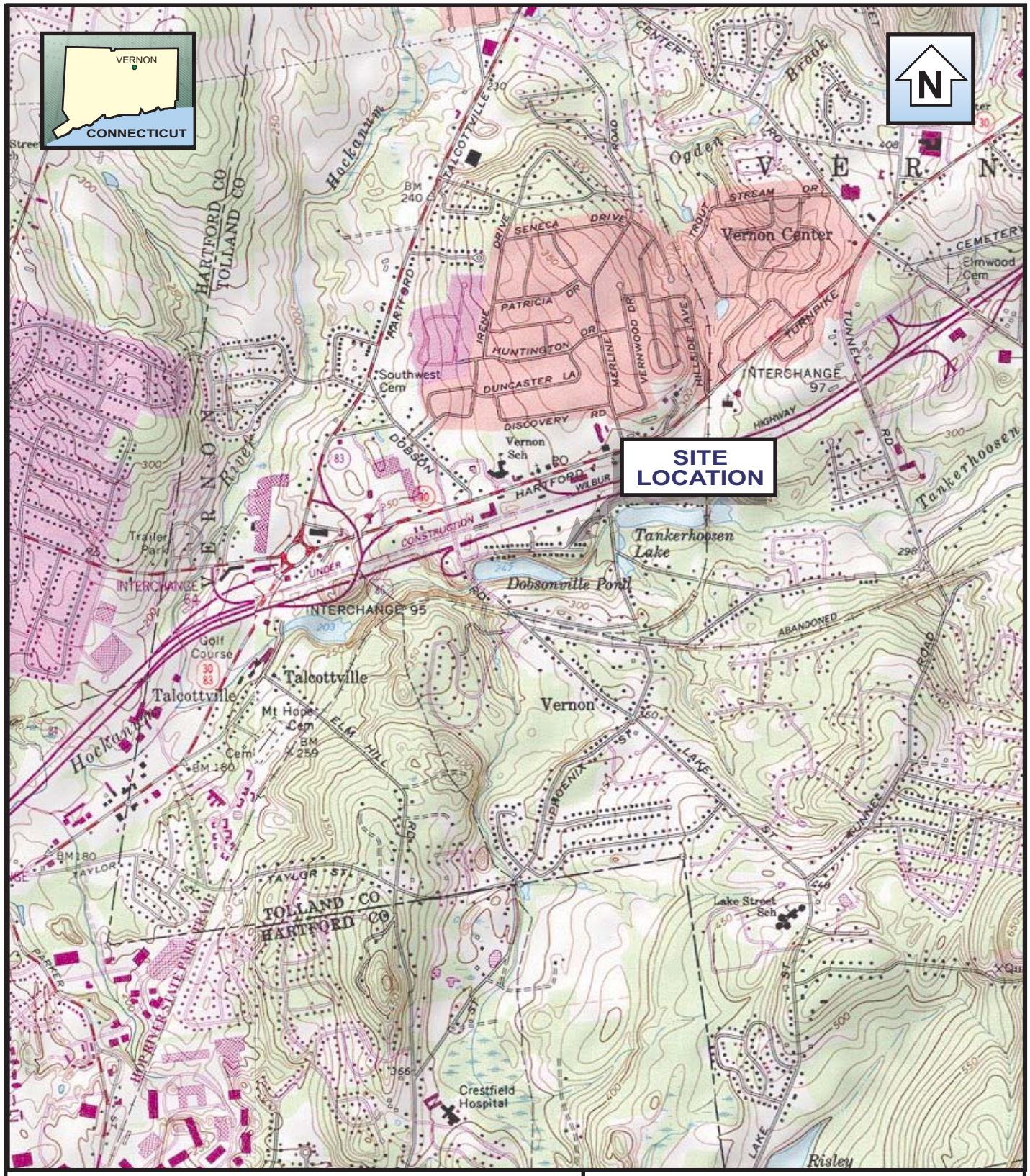
applicable CTDEEP permit. Specifically, as the ground water collected from monitoring wells MW-7 & MW-8 exhibited petroleum odors and a sheen, any water resulting from dewatering activities that has to be discharged will have to comply with the CTDEEP's General Permit for the Discharge of Groundwater Remediation Wastewater to Sanitary Sewer.

## 5.0 REFERENCES

Rogers, J. 1985. Bedrock Geological Map of Connecticut. State Geological and Natural History of Connecticut. Scale 1:125,000.

Stone, J.R. 1992. Surficial Materials Map of Connecticut. U.S. Department of the Interior, U.S. Geological Survey. Scale1:125,000.

# FIGURES

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BASE CREATED WITH TOPO™ © 1996
WILDFLOWERS PRODUCTIONS, www.topo.com
7.5' USGS TOPOGRAPHIC MAP

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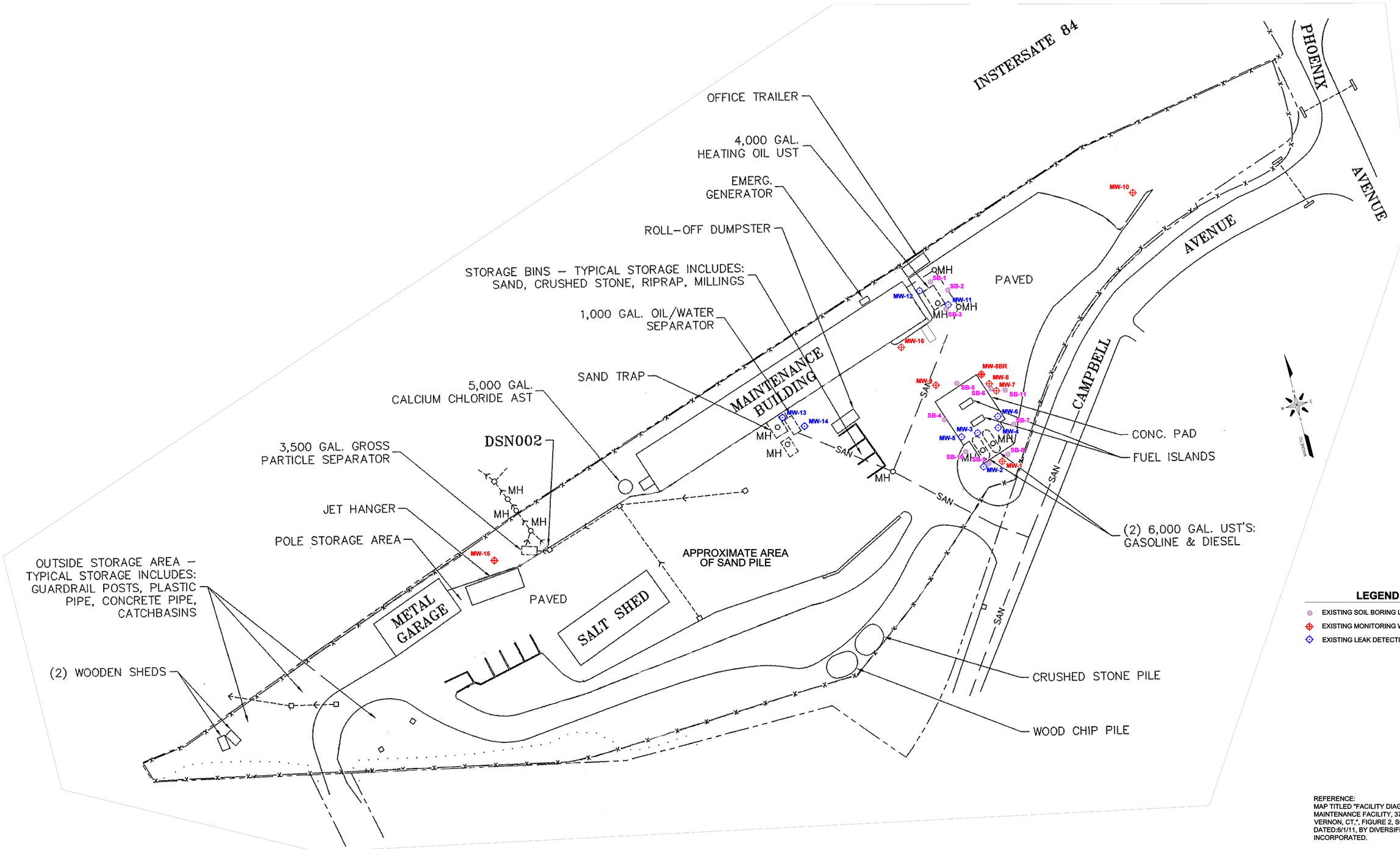
37 CAMPBELL AVENUE, VERNON, CONNECTICUT 06066

## FIGURE 1
## SITE LOCATION MAP

**Date:** 05/12 | **Project No.** 107307.003907.000210

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MAP TITLED "FACILITY DIAGRAM, VERNON MAINTENANCE FACILITY, 37 CAMBELL AVENUE, VERNON, CT,", FIGURE 2, SCALE: 1"=100'+/-, DATED:6/1/11, BY DIVERSIFIED TECHNOLOGY, INCORPORATED.

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GRAPHIC SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: TRC
APPROVED BY:
DATE: 07/10/12

TRC

PROJECT TITLE:
VERNON MAINTENANCE FACILTY
VERNON, CONNECTICUT

TOWN: VERNON

DRAWING TITLE:
SITE PLAN AND
SAMPLE LOCATIONS

PROJECT NO.
DRAWING NO.
SHEET NO.
FIGURE 2

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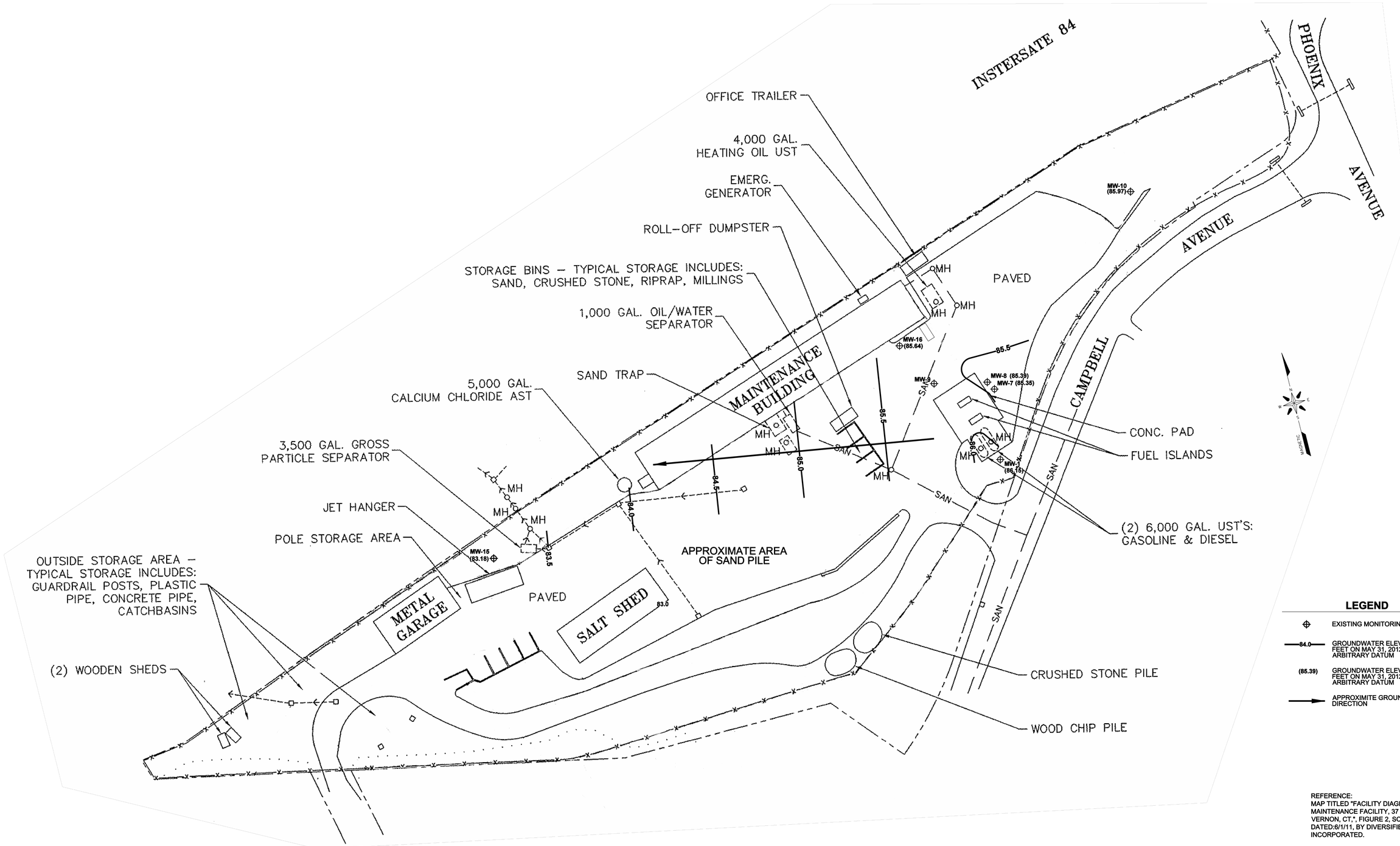


REFERENCE:
MAP TITLED "FACILITY DIAGRAM, VERNON MAINTENANCE FACILITY, 37 CAMBELL AVENUE, VERNON, CT,", FIGURE 2, SCALE: 1"=100'+/-, DATED:6/1/11, BY DIVERSIFIED TECHNOLOGY, INCORPORATED.

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: TRC
APPROVED BY:
DATE: 07/10/12

TRC

PROJECT TITLE:
VERNON MAINTENANCE FACILTY
VERNON, CONNECTICUT

TOWN: VERNON

DRAWING TITLE:
GROUNDWATER CONTOUR PLAN

PROJECT NO.
DRAWING NO.
SHEET NO.
FIGURE 3

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# TABLES

**Table 1**
**Soil Sample Analytical Results**
**Task 210 Subsurface Investigation**
**Vernon Maintenance Facility, Vernon Connecticut**
**TRC Project No. 107307.003907.000210**
**ConnDOT Project No. 170-1877**

| **Boring No.**<br>Sample Interval (ftbg):<br>Sample Date:<br>Notes: | **SB-1 (10-12)**<br>10-12<br>5/18/2012 | **SB-2 (10-11)**<br>10-11<br>5/18/2012 | **SB-3 (10-12)**<br>10-12<br>5/18/2012 | **SB-4 (12-14)**<br>12-14<br>5/18/2012 | **SB-5 (12-14)**<br>12-14<br>5/18/2012 | **SB-7 (12-14)**<br>12-14<br>5/18/2012 | **SB-8 (12-14)**<br>12-14<br>5/18/2012 | **SB-9 (10-12)**<br>10-12<br>5/18/2012 | **SB-10 (10-12)**<br>10-12<br>5/18/2012 | **SB-11 (12-14)**<br>12-14<br>5/18/2012 | **SB-11A (12-14)**<br>12-14<br>5/18/2012<br>Dupl. of SB-11(12-14) | **FB051812**<br>N/A<br>5/18/2012<br>Field Blank | **CT RSRs** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | RES DEC | GA PMC |
| **Volatile Organic Compounds - ug/kg** | | | | | | | | | | | | | | |
| **Method 8260** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- | -- |
| **Semi-Volatile Organic Compounds - ug/kg** | | | | | | | | | | | | | | |
| **Method 8270** | ND | ND | ND | | ND | | ND | ND | ND | | | ND | | |
| Benzo(a)anthracene | | | | | | | | | | | 420 | | 1,000 | 1,000 |
| Benzo(a)pyrene | | | | | | | | | | | 360 | | 1,000 | 1,000 |
| Benzo(b)fluoranthene | | | | | | | | | | | 350 | | 1,000 | 1,000 |
| Benzo(g,h,i)perylene | | | | | | | | | | | 260 | | 1,000,000 * | 4,200* |
| Chrysene | | | | | | | | | | | 390 | | 84,000 * | 1,000 * |
| Fluoranthene | | | | 250 | | 260 | | | | | 420 | | 1,000,000 | 5,600 |
| Phenanthrene | | | | | | | | | | 280 | 300 | | 1,000,000 | 4,000 |
| Pyrene | | | | 310 | | | | | | | 730 | | 1,000,000 | 4,000 |
| **Extractable Total Petroleum Hydrocarbons - mg/kg** | | | | | | | | | | | | | | |
| **CTDEEP-Approved Method** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 500 | 500 |
| **Total Lead - mg/kg** | | | | | | | | | | | | | | |
| **Method 6010** | 4.03 | 2.99 | 2.93 | 3.22 | 4.97 | 3.99 | 2.88 | 2.20 | 4.56 | 5.29 | 5.54 | ND | 400 | -- |

NOTES:
ftbg - feet below grade
ND - Not Detected
NE - Not Established
* - Criterion listed was not codified as part of the 1996 Remediation Standard Regulations, but was included on the list of Additional Polluting Substances as being approved for state-wide use.
**BOLD** value indicates an exceedance of the Residential Direct Exposure Criteria (RDEC)
Shaded value indicates an exceedance of the GB Pollutant Mobility Criteria (GB PMC)

**Table 2**
**Ground Water Sample Analytical Results**
**Task 210 Subsurface Investigation**
**Vernon Maintenance Facility, Vernon, Connecticut**
**TRC Project No. 107307.003907.000210**
**ConnDOT Project No. 170-1877**

| **Sample ID:**<br>Sample Date:<br>Notes: | **MW-1**<br>5/31/2012 | **MW-7**<br>5/31/2012 | **MW-8**<br>5/31/2012 | **MW-10**<br>5/31/2012 | **MW-15**<br>5/31/2012 | **MW-20**<br>5/31/2012<br>Dupl. of MW-15 | **MW-16**<br>5/31/2012 | **FB20120531**<br>5/31/2012<br>Field blank | **TB20120531**<br>5/31/2012<br>Trip blank | **CT RSRs** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | GWPC | SWPC | R GWVC |
| **Volatile Organic Compounds - ug/l** | | | | | | | | | | | | |
| **Method 8260** | ND | ND | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- |
| **Semi-Volatile Organic Compounds - ug/l** | | | | | | | | | | | | |
| **Method 8270** | ND | ND | | ND | ND | ND | | ND | NA | | | |
| Benzo(a)anthracene | | | | | | | 0.06 | | | 0.06 | 0.3 | NE |
| Phenanthrene | | | 0.15 | | | | | | | 200 | 0.3 | NE |
| **Extractable Total Petroleum Hydrocarbons - mg/l** | | | | | | | | | | | | |
| **CTDEEP-Approved Method** | ND | ND | **0.46** | ND | ND | ND | ND | ND | NA | 0.5 / 0.1 * | NE | NE |
| **Total Lead - ug/l** | | | | | | | | | | | | |
| **Method 6010** | ND | ND | ND | ND | ND | ND | 0.003 | ND | NA | 0.015 | 0.013 | NE |

**NOTES:**
ND - Not Detected
NA - Not Analyzed
NE - Not Established

**Bold** value indicates an exceedance of the Ground Water Protection Criteria (GWPC)
Underlined value indicates an exceedance of the Surface Water Protection Criteria (SWPC)
Shaded value indicates an exceedance of the Ground Water Volatilization Criteria (GWVC)

* - The promulgated GWPC for TPH is 0.5 mg/L, assuming that the analysis is performed by EPA Method 418.1. The criterion for TPH by Connecticut's ETPH method is noted to be 0.1 mg/L (however, this is not a promulgated number).

**Table 3**
**Ground Water Elevation Summary**
**Task 210 Subsurface Investigation**
**Vernon Maintenance Facility, Vernon Connecticut**
**TRC Project No. 107307.003907.000210**
**ConnDOT Project No. 170-1877**

**May 31, 2012**

| Well ID | Elevation of Top of PVC Casing (1) | Depth to Product (feet) | Depth to Water (feet) (2) | Ground Water Elevation |
|---|---|---|---|---|
| MW-1 | 101.95 | NP | 15.80 | 86.15 |
| MW-7 | 100.50 | NP | 15.15 | 85.35 |
| MW-8 | 100.12 | NP | 14.73 | 85.39 |
| MW-10 | 100.87 | NP | 14.90 | 85.97 |
| MW-15 | 102.34 | NP | 19.16 | 83.18 |
| MW-16 | 100.86 | NP | 15.22 | 85.64 |

NOTES:
(1) Relative eleavtation survey results.
(2) Measurement in feet from the top of the PVC casing.
NP = Not Present. Product (NAPL) was not observed in the wells gauged during the May 31, 2012 sampling event.

# APPENDIX A

# SOIL BORING LOGS

BORING NUMBER: **SB-1**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 8 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | Not Observed | | |
| Equipment/Model: | | REFERENCE | | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| | | | | | | 0 '- 0.5 ' Asphalt | |
| 1 | | | | | | 0.5 '- 2.8 ' Peastone | |
| 2 | 0-4 | | 4.0 | 2.8 | | | |
| 3 | | | | | | | |
| 4 | | | | | | 4 '- 8 ' No Recovery, peastone collaspsing (off-set boring 8' to the north) | |
| 5 | | | | | | | |
| 6 | 4-8 | | 4.0 | 0.0 | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | Bottom of borehole at 8.0 feet. | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

VOC SCREENING RESULTS (ppm): 20 40 60 80

**Notes:**

TRC
Results you can rely on

BORING NUMBER: **SB-1R**


| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 12 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | Not Observed | | |
| Equipment/Model: | | REFERENCE | | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | 0-4 | | 4.0 | 3.0 | | 0 '- 1.2 ' Asphalt/Sub-base material | |
| 2 | | | | | | 1.2 '- 3 ' Medium brown, fine to medium SAND, little silt, dry, no odor, no staining, peastone in drive shoe | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | 4-8 | | 4.0 | 3.0 | | 4 '- 5.5 ' Peastone | |
| 6 | | | | | | 5.5 '- 7 ' Medium brown, fine to medium SAND, trace silt, trace peastone, gravel, dry, no odor, no staining | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 8-12 | | 4.0 | 4.0 | | 8 '- 9.5 ' Peastone gravel | |
| 10 | | | | | | 9.5 '- 12 ' Medium reddish brown, fine to medium SAND, little silt, trace fine gravel (not peastone), dry, no odor, no staining. Hole collapses to 5'. Since likely below tank bottom, sampled soils 10-12'. | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | Bottom of borehole at 12.0 feet. | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

**Notes:** Sample SB-1 (10-12') for VOCs, PAHs, ETPH and Pb.

BORING NUMBER: **SB-2**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 11 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | Not Observed | | |
| Equipment/Model: | | REFERENCE | | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Asphalt/Sub-base material (Off-set 5' east to avoid peastone) | |
| 2, 3, 4 | 0-4 | | 4.0 | 3.8 | | 1 '- 3.8 ' Reddish brown, fine to medium SAND, little silt, dry, no odor, no staining | |
| 5 | 4-8 | | 4.0 | 4.0 | | 4 '- 5 ' Reddish brown, fine to medium SAND, little silt, dry, no odor, no staining | |
| 6 | | | | | | 5 '- 6.6 ' Reddish brown, fine to coarse SAND, little fine gravel, trace silt, dry, no odor, no staining | |
| 7, 8 | | | | | | 6.6 '- 8 ' Reddish brown, fine SAND, some silt, dry, no odor, no staining | |
| 9 | 8-11 | | 3.0 | 3.0 | | 8 '- 9 ' Cave-In | |
| 10, 11 | | | | | | 9 '- 11 ' Reddish brown, fine SAND, little silt, moist, no odor, no staining, red sandstone in drive shoe. Refusal at 11'. | |
| 12, 13, 14, 15, 16, 17, 18, 19, 20 | | | | | | Bottom of borehole at 11.0 feet. | |

**Notes:** Sample SB-2 (10-11') for VOCs, PAHs, ETPH and Pb.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD120711 US.GDT - 7/11/12
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BORING NUMBER: **SB-3**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 14 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | Not Observed | | |
| Equipment/Model: | | REFERENCE | | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Asphalt/Sub-base material (Off-set 5' south to avoid peastone) | |
| 2, 3, 4 | 0-4 | | 4.0 | 3.5 | | 1 '- 3.5 ' Reddish brown, fine SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 4.0 | | 4 '- 8 ' Reddish brown, fine to medium SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 9 | 8-12 | | 4.0 | 4.0 | | 8 '- 9 ' Reddish brown, fine to medium SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 10 | | | | | | 9 '- 10 ' Reddish brown, fine to coarse SAND, trace silt, dry, no odor, no staining | |
| 11, 12 | | | | | | 10 '- 12 ' Reddish brown, fine SAND, some silt, dry, no odor, no staining | |
| 13, 14 | 12-14 | | 2.0 | 2.0 | | 12 '- 14 ' Reddish brown, fine SAND, some silt, very moist, no odor, no staining, bottom red sandstone in drive shoe. Refusal at 14'. | |
| 15, 16, 17, 18, 19, 20 | | | | | | Bottom of borehole at 14.0 feet. | |

**Notes:** Sample SB-3 (10-11') for VOCs, PAHs, ETPH and Pb.

TRC
Results you can rely on

BORING NUMBER: **SB-4**


| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | 5/18/2012 | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | 14.7 | | |
| Equipment/Model: | | REFERENCE | Ground Surface | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| | | | | | | 0 '- 0.8 ' Asphalt (Off-set 3' east to avoid peastone) | |
| 1, 2, 3, 4 | 0-4 | | 4.0 | 4.0 | | 0.8 '- 4 ' Reddish brown, fine to medium SAND, little fine gravel, trace silt, dry, no odor, no staining, fine to coarse sand in drive shoe | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 4.0 | | 4 '- 8 ' Reddish brown, fine to medium SAND, little fine gravel, little silt, dry, no odor, no staining | |
| 9 | 8-12 | | 4.0 | 4.0 | | 8 '- 9 ' Reddish brown, fine to coarse SAND, some fine gravel, dry, no odor, no staining | |
| | | | | | | 9 '- 9.5 ' Reddish brown, fine SAND and SILT, dry, no odor, no staining | |
| 10, 11, 12 | | | | | | 9.5 '- 12 ' Reddish brown, fine to coarse SAND, some fine gravel, dry, no odor, no staining | |
| 13, 14 | 12-16 | | 4.0 | 4.0 | | 12 '- 14.7 ' Reddish brown, fine to medium SAND, little silt, fine gravel, dry, no odor, no staining | |
| 15, 16 | | | | | | 14.7 '- 16 ' Reddish brown, fine SAND and SILT, little medium sand, trace fine gravel, wet, no odor, no staining | |
| 17, 18, 19, 20 | | | | | | Bottom of borehole at 16.0 feet. | |

**Notes:** Sample SB-4 (12-14') for VOCs, PAHs, ETPH and Pb.

BORING NUMBER: **SB-5**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | 5/18/2012 | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | 14.8 | | |
| Equipment/Model: | | REFERENCE | Ground Surface | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Asphalt (Off-set 2' north) | |
| 2, 3, 4 | 0-4 | | 4.0 | 3.5 | | 1 '- 3.5 ' Reddish brown, fine SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 2.4 | | 4 '- 6.4 ' Reddish brown, fine SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 9, 10, 11, 12 | 8-12 | | 4.0 | 2.8 | | 8 '- 10.8 ' Reddish brown, fine to medium SAND, little fine gravel, trace silt, dry, no odor, no staining | |
| 13, 14, 15, 16 | 12-16 | | 4.0 | 2.9 | | 12 '- 14.8 ' Reddish brown, fine to medium SAND, little fine gravel, trace silt, dry, no odor, no staining<br>14.8 '- 14.9 ' Reddish brown, fine to coarse SAND, some fine gravel, wet, no odor, no staining | |
| 17, 18, 19, 20 | | | | | | Bottom of borehole at 16.0 feet. | |

VOC SCREENING RESULTS (ppm): 20 40 60 80

**Notes:** Sample SB-5 (12-14') for VOCs, PAHs, ETPH and Pb.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD120711 US.GDT - 7/11/12
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Results you can rely on

BORING NUMBER: **SB-6**


| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | |
|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC |
| Driller(s): | C. Knight/W. Lineberry |
| Drilling Method: | Geoprobe |
| Equipment/Model: | |
| Sampler: | 4' Macrocore |

| GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|
| MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| DATE | | | |
| DEPTH (ft.bgs.) | Not Observed | | |
| REFERENCE | | | |
| STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Asphalt | |
| 2, 3, 4 | 0-4 | | 4.0 | 3.4 | | 1 '- 3.4 ' Reddish brown, fine to medium SAND, little fine gravel, trace silt, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 3.5 | | 4 '- 7.5 ' Reddish brown, fine to medium SAND, some fine gravel, little silt, dry, no odor, no staining | |
| 9, 10, 11, 12 | 8-12 | | 4.0 | 4.0 | | 8 '- 12 ' Reddish brown, fine to medium SAND, some fine gravel, little silt, dry, no odor, no staining | |
| 13, 14, 15, 16 | 12-16 | | 4.0 | 0.5 | | 12 '- 12.5 ' All cave-in, gravel, no odor, no staining. | |
| 17, 18, 19, 20 | | | | | | Bottom of borehole at 16.0 feet. | |

**Notes:** No soil sample collected given lack of recovery at depth.

BORING NUMBER: **SB-7**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | |
|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC |
| Driller(s): | C. Knight/W. Lineberry |
| Drilling Method: | Geoprobe |
| Equipment/Model: | |
| Sampler: | 4' Macrocore |

| GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|
| MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| DATE | 5/18/2012 | | |
| DEPTH (ft.bgs.) | 14.5 | | |
| REFERENCE | Ground Surface | | |
| STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Asphalt (Off-set 15' east to avoid old tank grave) | |
| 2 | 0-4 | | 4.0 | 2.8 | | 1 '- 2.8 ' Reddish brown, fine to medium SAND, little fine gravel, moist, no odor, no staining | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | 4-8 | | 4.0 | 2.8 | | 4 '- 6.8 ' Reddish brown, fine to medium SAND, little fine gravel, wet, no odor, no staining | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | 8-12 | | 4.0 | 2.0 | | 8 '- 10 ' Reddish brown, fine to medium SAND, little fine gravel, very moist, no odor, no staining | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | 12-16 | | 4.0 | 2.5 | | 12 '- 14.5 ' Reddish brown, fine to medium SAND, little fine gravel, saturated at bottom, no odor, no staining | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | Bottom of borehole at 16.0 feet. | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

**Notes:** Sample SB-7 (12-14') for VOCs, PAHs, ETPH and Pb.

BORING NUMBER: **SB-8**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | |
|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC |
| Driller(s): | C. Knight/W. Lineberry |
| Drilling Method: | Geoprobe |
| Equipment/Model: | |
| Sampler: | 4' Macrocore |

| GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|
| MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| DATE | 5/18/2012 | | |
| DEPTH (ft.bgs.) | 14 | | |
| REFERENCE | Ground Surface | | |
| STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Topsoil (Off-set 8' off pad to avoid vent lines) | |
| 2, 3, 4 | 0-4 | | 4.0 | 4.0 | | 1 '- 4 ' Reddish brown, fine SAND, some silt, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 4.0 | | 4 '- 8 ' Reddish brown, fine to medium SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 9, 10, 11, 12 | 8-12 | | 4.0 | 4.0 | | 8 '- 12 ' Reddish brown, fine to medium SAND, little silt, trace fine gravel, pulverized rock, red sandstone in drive shoe, dry, no odor, no staining | |
| 13, 14 | 12-16 | | 4.0 | 4.0 | | 12 '- 14 ' Reddish brown, fine SAND, some silt, moist, no odor, no staining | |
| 15, 16 | | | | | | 14 '- 16 ' Reddish brown, fine to medium SAND, little fine gravel, wet, no odor, no staining | |
| 17, 18, 19, 20 | | | | | | Bottom of borehole at 16.0 feet. | |

**Notes:** Sample SB-8 (12-14') for VOCs, PAHs, ETPH and Pb.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD120711 US.GDT - 7/11/12
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BORING NUMBER: **SB-9**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | |
|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC |
| Driller(s): | C. Knight/W. Lineberry |
| Drilling Method: | Geoprobe |
| Equipment/Model: | |
| Sampler: | 4' Macrocore |

| GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|
| MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| DATE | | | |
| DEPTH (ft.bgs.) | Not Observed | | |
| REFERENCE | | | |
| STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | 0-4 | | 4.0 | 4.0 | | 0 '- 1 ' Topsoil (Off-set 8' from pad to avoid vent lines) | |
| 2 | | | | | | 1 '- 2 ' Light brown, SILT, dry, no odor, no staining | |
| 3, 4 | | | | | | 2 '- 4 ' Reddish brown, fine SAND, little silt, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 4.0 | | 4 '- 8 ' Reddish brown, fine SAND, little silt, dry, no odor, no staining | |
| 9, 10, 11, 12 | 8-12 | | 4.0 | 4.0 | | 8 '- 12 ' Reddish brown, fine SAND, little silt, dry, no odor, no staining | |
| 13, 14, 15, 16 | 12-16 | | 4.0 | 3.5 | | 12 '- 15.5 ' Reddish brown, fine to coarse SAND, some fine gravel, wet/saturated, no odor, no staining | |
| 17, 18, 19, 20 | | | | | | Bottom of borehole at 16.0 feet. | |

**Notes:** Sample SB-9 (10-12') for VOCs, PAHs, ETPH and Pb.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD120711 US.GDT - 7/11/12
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BORING NUMBER: **SB-10**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 16 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | |
|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC |
| Driller(s): | C. Knight/W. Lineberry |
| Drilling Method: | Geoprobe |
| Equipment/Model: | |
| Sampler: | 4' Macrocore |

| GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|
| MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| DATE | 5/18/2012 | | |
| DEPTH (ft.bgs.) | 12 | | |
| REFERENCE | Ground Surface | | |
| STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Topsoil (Off-set 6' off pad to avoid peastone. 0-4' still in peastone, move 3 more ft) | |
| 2, 3, 4 | 0-4 | | 4.0 | 3.5 | | 1 '- 3.5 ' Reddish brown, fine SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 4.0 | | 4 '- 8 ' Reddish brown, fine SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 9, 10, 11 | 8-12 | | 4.0 | 4.0 | | 8 '- 11 ' Reddish brown, fine SAND, little silt, trace fine gravel, dry, no odor, no staining | |
| 12 | | | | | | 11 '- 12 ' Reddish brown, fine SAND, some silt, moist, no odor, no staining | |
| 13, 14, 15, 16 | 12-16 | | 4.0 | 3.5 | | 12 '- 15.5 ' Reddish brown, fine to medium SAND, saturated, no odor, no staining | |
| 17, 18, 19, 20 | | | | | | Bottom of borehole at 16.0 feet. | |

**Notes:** Sample SB-10 (10-12') for VOCs, PAHs, ETPH and Pb.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD120711 US.GDT - 7/11/12
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BORING NUMBER: **SB-11**



| PROJECT INFORMATION | | BORING INFORMATION | | | |
|---|---|---|---|---|---|
| Project Name: | Vernon Maintenance Facility | Boring Depth: | 14.5 | Hole Diameter: | |
| Project Location: | Vernon, CT | Date Started: | 5/18/12 | Date Completed: | 5/18/12 |
| Project Number: | 107307.0003907.000210 | Coordinate System: | | | |
| Client: | ConnDOT | North: | Not Surveyed | East: | Not Surveyed |
| Logged By: | Chris Lindahl | Vertical Datum: | | Ground Elevation: | Not Surveyed |
| Checked By: | Marya Mahoney | | | | |

| DRILLING INFORMATION | | GROUND WATER OBSERVATIONS | | | |
|---|---|---|---|---|---|
| Drilling Contractor: | Logical Environmental Solutions, LLC | MEASUREMENT | At Time of Drilling | At End of Drilling | After Drilling |
| Driller(s): | C. Knight/W. Lineberry | DATE | | | |
| Drilling Method: | Geoprobe | DEPTH (ft.bgs.) | Not Observed | | |
| Equipment/Model: | | REFERENCE | | | |
| Sampler: | 4' Macrocore | STABILIZATION | | | |

| DEPTH (FT.) | SAMPLE NUMBER | SAMPLE TYPE | PENETRATION (FT.) | RECOVERY (FT.) | LITHOLOGY | MATERIAL DESCRIPTION | VOC SCREENING RESULTS (ppm) |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0 '- 1 ' Asphalt (15' east of MW-7) | |
| 2, 3, 4 | 0-4 | | 4.0 | 3.5 | | 1 '- 3.5 ' Reddish brown, fine SAND, some silt, little fine gravel, dry, no odor, no staining | |
| 5, 6, 7, 8 | 4-8 | | 4.0 | 4.0 | | 4 '- 8 ' Reddish brown, fine to medium SAND, little fine gravel, trace silt, dry, no odor, no staining | |
| 9, 10 | 8-12 | | 4.0 | 4.0 | | 8 '- 10.8 ' Reddish brown, fine to medium SAND, little fine gravel, trace silt, dry, no odor, no staining | |
| 11, 12 | | | | | | 10.8 '- 12 ' Reddish brown, fine SAND, some silt, trace fine gravel, dry, no odor, no staining | |
| 13, 14 | 12-14.5 | | 2.5 | 2.5 | | 12 '- 14.5 ' Reddish brown, fine to coarse SAND, some fine gravel, little silt, moist, no odor, no staining. Refusal at 14.5'. | |
| 15, 16, 17, 18, 19, 20 | | | | | | Bottom of borehole at 14.5 feet. | |

VOC SCREENING RESULTS (ppm): 20 40 60 80

**Notes:** Sample SB-11 (12-14') and duplicate SB-11A (12-14') for VOCs, PAHs, ETPH and Pb.

# APPENDIX B

# LOW-FLOW GROUND WATER SAMPLE FORMS

# Ground Water Sampling Log

Client: ConnDOT
Project Number: 107307.003907.000210
Site Name / Location: Vernon Maintenance Facility/Vernon, CT
Site Conditions / Weather: Sunny 70°F
Purge Method: Low-flow (peristaltic pump)
Purge Equipment/Material: geopump, tygon, silicon tubing
Headspace PID/FID (ppm):
Pump Intake (ftbtoc): Mid - Screen

Well Identification: MW-1
Date: 5/31/12
Depth to Water (ftbtoc): 15.80
Depth to Bottom (ftbtoc): 21.40
Standing Column (ft):
Well Diameter (in): 2
Standing Volume (gal,liter):
Screened Interval (ftbtoc): 11.40 - 21.40

Purging Information

Well Casing Volumes: 1" = 0.04 gal/ft = 0.15 L/ft, 2" = 0.16 gal/ft = 0.62 L/ft, 4" = 0.65 gal/ft = 2.47 L/ft, 6" = 1.47 gal/ft = 5.56 L/ft

| Time | DTW (ftbtoc) | Purge Rate (gpm,lpm) | Volume Purged (gal,liter) | pH | Specific Cond. (mS/m) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (ºC) | Other | ORP (mV) | Comments / Observations (color, odor, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0915 | 15.80 | 200 | ml/m | Start | Purge | — | — | — | — | — | Clear Sl. Odor |
| 0918 | 16.29 | ↓ | ↓ | 7.67 | 1.134 | 14.2 | 7.44 | 14.24 | | 120.5 | " " |
| 0921 | 16.42 | ↓ | ↓ | 7.07 | 1.154 | 33.1 | 7.27 | 14.46 | | 131.4 | Sl. Turbid Sl. Odor |
| 0924 | 16.30 | ↓ | ↓ | 6.60 | 1.163 | 38.4 | 7.17 | 15.52 | | 148.0 | " " |
| 0927 | 16.39 | ↓ | ↓ | 6.38 | 1.277 | 39.5 | 7.04 | 15.34 | | 155.3 | " " |
| 0930 | 16.45 | ↓ | ↓ | 6.27 | 1.302 | 55.7 | 6.99 | 15.15 | | 161.9 | Turbid Sl. Odor (Petroleum) |
| 0933 | 16.54 | ↓ | ↓ | 6.21 | 1.343 | 57.8 | 6.95 | 15.12 | | 164.0 | " " |
| 0936 | 16.63 | ↓ | ↓ | 6.14 | 1.416 | 47.8 | 6.87 | 15.03 | | 172.1 | Sl. Turbid Sl. Odor (Petroleum) |
| 0939 | 16.64 | ↓ | ↓ | 6.13 | 1.460 | 51.5 | 6.79 | 15.03 | | 178.0 | " " |
| 0942 | 16.66 | ↓ | ↓ | 6.12 | 1.478 | 37.9 | 6.75 | 14.92 | | 180.8 | " " |
| 0945 | 16.70 | ↓ | ↓ | 6.11 | 1.489 | 37.8 | 6.70 | 14.91 | | 182.8 | " " |
| 0948 | 16.73 | ↓ | ↓ | 6.11 | 1.488 | 29.5 | 6.68 | 14.86 | | 184.3 | " " |
| 0951 | 16.79 | ↓ | ↓ | 6.11 | 1.487 | 26.7 | 6.64 | 14.86 | | 186.1 | " " |
| 0954 | 16.85 | ↓ | ↓ | 6.11 | 1.486 | 28.6 | 6.65 | 14.75 | | 189.9 | " " |
| 3@3-5 m. | | | | +/- 0.1 | 3% | 10% | 10% | 3% | | +/- 10 mV | |

Sampling Information

Sample Identity: MW-1 Sample Time: 1000 TRC Personnel: Zach Pedersen

Containers

| Analysis | Number | Size | Type | Analysis | Number | Size | Type |
|---|---|---|---|---|---|---|---|
| VOCs | 3 | 40ml | VOC vials (HCL) | | | | |
| SVOCs | 1 | 1000ml | glass | | | | |
| ETPH | 1 | 1000ml | glass | | | | |
| Metals | 1 | 200ml | Plastic (HN03) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Sampling method for all analyses = peristaltic pump with tygon and silicon tubing, EXCEPT VOCs, which are sampled with a dedicated bailer.

# Ground Water Sampling Log

Client: ConnDOT
Project Number: 107307.003907.000210
Site Name / Location: Vernon Maintenance Facility/Vernon, CT
Site Conditions / Weather: Sunny 70° F
Purge Method: Low-flow (peristaltic pump)
Purge Equipment/Material: geopump, tygon, silicon tubing
Headspace PID/FID (ppm):
Pump Intake (ftbtoc): Mid-Screen

Well Identification: MW-7
Date: 5/31/12
Depth to Water (ftbtoc): 15.15
Depth to Bottom (ftbtoc): 19.58
Standing Column (ft):
Well Diameter (in): 4
Standing Volume (gal,liter):
Screened Interval (ftbtoc): 9.58-19.58

*Top of PVC loose.

Purging Information

Well Casing Volumes: 1" = 0.04 gal/ft = 0.15 L/ft, 2" = 0.16 gal/ft = 0.62 L/ft, 4" = 0.65 gal/ft = 2.47 L/ft, 6" = 1.47 gal/ft = 5.56 L/ft

| Time | DTW (ftbtoc) | Purge Rate (gpm,lpm) | Volume Purged (gal,liter) | pH | Specific Cond. (mS/m) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (ºC) | Other | ORP (mV) | Comments / Observations (color, odor, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1055 | 15.15 | 200 | ml/m | Start | Purge | | | | | | |
| 1058 | 15.21 | | | 6.95 | 0.898 | 85.0 | 4.29 | 19.37 | | 166.7 | Very Turbid sl. odor |
| 1101 | 15.20 | | | 6.52 | 1.603 | 85.8 | 0.91 | 19.91 | | 162.4 | " " |
| 1104 | 15.21 | | | 6.45 | 1.601 | 84.5 | 0.67 | 19.65 | | 160.1 | " " |
| 1107 | 15.21 | | | 6.39 | 1.613 | 77.9 | 0.53 | 19.48 | | 158.7 | Turbid sl. odor |
| 1110 | 15.22 | | | 6.40 | 1.610 | 76.9 | 0.51 | 19.52 | | 159.1 | " " |
| 1113 | | | | 6.41 | 1.613 | 70.8 | 0.48 | 19.60 | | 158.5 | " " |
| 1116 | | | | 6.40 | 1.613 | 62.4 | 0.48 | 19.66 | | 158.8 | " " |
| 1119 | | | | 6.40 | 1.615 | 54.7 | 0.48 | 19.62 | | 159.3 | " " |
| 1122 | | | | 6.40 | 1.617 | 48.8 | 0.50 | 19.35 | | 162.2 | " " |
| 1125 | | | | 6.40 | 1.620 | 45.1 | 0.49 | 19.68 | | 162.4 | " " |
| 1128 | | | | 6.40 | 1.624 | 39.3 | 0.52 | 19.41 | | 164.4 | " " |
| 1131 | | | | 6.39 | 1.621 | 34.0 | 0.50 | 19.35 | | 164.5 | " " |
| 1134 | | | | 6.39 | 1.619 | 32.4 | 0.50 | 19.04 | | 166.1 | " " |
| 3@3-5 m. | | | | +/- 0.1 | 3% | 10% | 10% | 3% | | +/- 10 mV | |

Sampling Information

Sample Identity: MW-7
Sample Time: 1140
TRC Personnel: Zach Pedersen

Containers

| Analysis | Number | Size | Type | Analysis | Number | Size | Type |
|---|---|---|---|---|---|---|---|
| VOCs | 3 | 40ml | VOC vials (HCL) | | | | |
| SVOCs | 1 | 1000ml | glass | | | | |
| ETPH | 1 | 1000ml | glass | | | | |
| Metals | 1 | 200ml | Plastic (HN03) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Sampling method for all analyses = peristaltic pump with tygon and silicon tubing, EXCEPT VOCs, which are sampled with a dedicated bailer.

# Ground Water Sampling Log

Client: ConnDOT
Project Number: 107307.003907.000210
Site Name / Location: Vernon Maintenance Facility/Vernon, CT
Site Conditions / Weather: Sunny 80° F
Purge Method: Low-flow (peristaltic pump)
Purge Equipment/Material: geopump, tygon, silicon tubing
Headspace PID/FID (ppm):
Pump Intake (ftbtoc): Midscreen

Well Identification: MW-8
Date: 5/31/12
Depth to Water (ftbtoc): 14.73
Depth to Bottom (ftbtoc): 21.54
Standing Column (ft):
Well Diameter (in): 2
Standing Volume (gal,liter):
Screened Interval (ftbtoc): 11.54-21.54

Purging Information

Well Casing Volumes: 1" = 0.04 gal/ft = 0.15 L/ft, 2" = 0.16 gal/ft = 0.62 L/ft, 4" = 0.65 gal/ft = 2.47 L/ft, 6" = 1.47 gal/ft = 5.56 L/ft

| Time | DTW (ftbtoc) | Purge Rate (gpm,lpm) | Volume Purged (gal,liter) | pH | Specific Cond. (mS/m) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (ºC) | Other | ORP (mV) | Comments / Observations (color, odor, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1157 | 14.73 | 250 | m/m | Start | Purge | | | | | | |
| 1200 | 14.75 | | | 6.80 | 1.607 | 12.0 | 1.84 | 17.93 | | -57.5 | Clear Strong Petroleum odor |
| 1203 | | | | 6.43 | 1.603 | 5.3 | 0.48 | 16.60 | | -62.0 | " " |
| 1206 | | | | 6.32 | 1.614 | 2.7 | 0.33 | 16.42 | | -52.4 | " " |
| 1209 | | | | 6.29 | 1.613 | 1.3 | 0.29 | 16.37 | | -47.3 | " " |
| 1212 | | | | 6.27 | 1.611 | 0.8 | 0.25 | 16.29 | | -41.3 | " " |
| 1215 | | | | 6.26 | 1.609 | 1.1 | 0.99 | 16.18 | | -35.9 | " " |
| 1218 | | | | 6.25 | 1.616 | 1.3 | 0.86 | 16.39 | | -34.2 | " " |
| 1221 | | | | 6.24 | 1.619 | 0.4 | 0.85 | 16.36 | | -28.9 | " " |
| 1224 | | | | 6.24 | 1.622 | 1.3 | 0.80 | 16.30 | | -26.2 | " " |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 3@3-5 m. | | | | +/- 0.1 | 3% | 10% | 10% | 3% | | +/- 10 mV | |

Sampling Information Sample Identity: MW-8 Sample Time: 1230 TRC Personnel: Zach Pedersen

| Containers | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis | Number | Size | Type | Analysis | Number | Size | Type |
| VOCs | 3 | 40ml | VOC vials (HCL) | | | | |
| SVOCs | 1 | 1000ml | glass | | | | |
| ETPH | 1 | 1000ml | glass | | | | |
| Metals | 1 | 200ml | Plastic (HN03) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Sampling method for all analyses = peristaltic pump with tygon and silicon tubing, EXCEPT VOCs, which are sampled with a dedicated bailer.

# Ground Water Sampling Log

Client: ConnDOT
Project Number: 107307.003907.000210
Site Name / Location: Vernon Maintenance Facility/Vernon, CT
Site Conditions / Weather: Sunny 85-90° F
Purge Method: Low-flow (peristaltic pump)
Purge Equipment/Material: geopump, tygon, silicon tubing
Headspace PID/FID (ppm):
Pump Intake (ftbtoc): Mid-Screen

Well Identification: MW-10
Date: 5/31/12
Depth to Water (ftbtoc): 14.90
Depth to Bottom (ftbtoc): 22.29
Standing Column (ft):
Well Diameter (in): 2
Standing Volume (gal,liter):
Screened Interval (ftbtoc): 12.29-22.29

Purging Information

Well Casing Volumes: 1" = 0.04 gal/ft = 0.15 L/ft, 2" = 0.16 gal/ft = 0.62 L/ft, 4" = 0.65 gal/ft = 2.47 L/ft, 6" = 1.47 gal/ft = 5.56 L/ft

| Time | DTW (ftbtoc) | Purge Rate (gpm,lpm) | Volume Purged (gal,liter) | pH | Specific Cond. (mS/m) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (ºC) | Other | ORP (mV) | Comments / Observations (color, odor, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1435 | 14.90 | 200 | ml/m | start | Purge | | | | | | |
| 1438 | 15.78 | | | 5.74 | 0.334 | 75.3 | 6.82 | 13.67 | | 213.2 | Turbid Sl. odor |
| 1441 | 16.09 | | | 5.60 | 0.330 | 43.5 | 6.38 | 13.76 | | 223.4 | " " |
| 1444 | 16.11 | | | 5.57 | 0.329 | 38.3 | 6.59 | 14.83 | | 226.5 | " " |
| 1447 | 16.16 | | | 5.57 | 0.326 | 30.9 | 6.55 | 15.48 | | 229.9 | Sl. Turbid Sl. odor |
| 1450 | 16.20 | | | 5.58 | 0.324 | 25.3 | 6.84 | 16.06 | | 231.5 | " " |
| 1453 | 16.24 | | | 5.58 | 0.322 | 20.4 | 6.46 | 16.34 | | 232.8 | " " |
| 1456 | 16.24 | | | 5.60 | 0.321 | 20.6 | 6.49 | 16.77 | | 233.5 | " " |
| 1459 | 16.33 | | | 5.60 | 0.317 | 13.6 | 7.17 | 15.92 | | 234.5 | Clear w/organic particles |
| 1502 | 16.45 | | | 5.60 | 0.314 | 15.1 | 7.24 | 15.37 | | 236.4 | " " |
| 1505 | 16.73 | | | 5.60 | 0.313 | 14.7 | 7.21 | 15.29 | | 236.5 | " " |
| 1508 | 16.94 | | | 5.60 | 0.316 | 16.3 | 7.68 | 15.21 | | 237.4 | " " |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 3@3-5 m. | | | | +/- 0.1 | 3% | 10% | 10% | 3% | | +/- 10 mV | |

Sampling Information

Sample Identity: MW-10 Sample Time: 1510 TRC Personnel: Zach Pedersen

| Containers | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis | Number | Size | Type | Analysis | Number | Size | Type |
| VOCs | 3 | 40ml | VOC vials (HCL) | | | | |
| SVOCs | 1 | 1000ml | glass | | | | |
| ETPH | 1 | 1000ml | glass | | | | |
| Metals | 1 | 200ml | Plastic (HN03) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Sampling method for all analyses = peristaltic pump with tygon and silicon tubing, EXCEPT VOCs, which are sampled with a dedicated bailer.

# Ground Water Sampling Log

Client: ConnDOT
Project Number: 107307.003907.000210
Site Name / Location: Vernon Maintenance Facility/Vernon, CT
Site Conditions / Weather: Sunny 85-90°F
Purge Method: Low-flow (peristaltic pump)
Purge Equipment/Material: geopump, tygon, silicon tubing
Headspace PID/FID (ppm):
Pump Intake (ftbtoc): Mid-Screen

Well Identification: MW-15
Date: 5/31/12
Depth to Water (ftbtoc): 19.16
Depth to Bottom (ftbtoc): 26.61
Standing Column (ft):
Well Diameter (in): 2
Standing Volume (gal,liter):
Screened Interval (ftbtoc): 16.61-26.61

Purging Information

Well Casing Volumes: 1" = 0.04 gal/ft = 0.15 L/ft, 2" = 0.16 gal/ft = 0.62 L/ft, 4" = 0.65 gal/ft = 2.47 L/ft, 6" = 1.47 gal/ft = 5.56 L/ft

| Time | DTW (ftbtoc) | Purge Rate (gpm,lpm) | Volume Purged (gal,liter) | pH | Specific Cond. (mS/m) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (ºC) | Other | ORP (mV) | Comments / Observations (color, odor, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1555 | 19.16 | 200 | ml/m | Start | Purge | | | | | | |
| 1558 | 19.46 | | | 6.72 | 0.286 | 21.8 | 8.23 | | | 130.1 | sl. Turbid |
| 1601 | 19.52 | | | 6.81 | 0.310 | 19.8 | 7.47 | 14.96 | | 150.6 | " " |
| 1604 | 19.54 | | | 6.74 | 0.349 | 15.3 | 8.23 | 14.89 | | 168.3 | Clear |
| 1607 | 19.54 | | | 6.74 | 0.366 | 12.8 | 8.30 | 14.98 | | 175.2 | " " |
| 1610 | | | | 6.74 | 0.406 | 10.2 | 7.93 | 14.77 | | 183.2 | " " |
| 1613 | | | | 6.74 | 0.421 | 8.9 | 8.20 | 14.59 | | 174.9 | " " |
| 1615 | | | | 6.76 | 0.429 | 7.7 | 7.30 | 14.64 | | 174.5 | " " |
| 1618 | | | | 6.77 | 0.430 | 7.3 | 7.38 | 14.68 | | 170.3 | " " |
| 1621 | | | | 6.78 | 0.430 | 7.5 | 7.87 | 14.63 | | 165.4 | " " |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 3@3-5 m. | | | | +/- 0.1 | 3% | 10% | 10% | 3% | | +/- 10 mV | |

Sampling Information

Sample Identity: MW-15 Sample Time: 1625 TRC Personnel: Zach Pedersen

| Containers | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis | Number | Size | Type | Analysis | Number | Size | Type |
| VOCs | 3 | 40ml | VOC vials (HCL) | | | | |
| SVOCs | 1 | 1000ml | glass | | | | |
| ETPH | 1 | 1000ml | glass | | | | |
| Metals | 1 | 200ml | Plastic (HN03) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Sampling method for all analyses = peristaltic pump with tygon and silicon tubing, EXCEPT VOCs, which are sampled with a dedicated bailer.

# Ground Water Sampling Log

Client: ConnDOT
Project Number: 107307.003907.000210
Site Name / Location: Vernon Maintenance Facility/Vernon, CT
Site Conditions / Weather: Sunny 85°F
Purge Method: Low-flow (peristaltic pump)
Purge Equipment/Material: geopump, tygon, silicon tubing
Headspace PID/FID (ppm):
Pump Intake (ftbtoc): Mid-Screen

Well Identification: MW-16
Date: 5/31/12
Depth to Water (ftbtoc): 15.22
Depth to Bottom (ftbtoc): 21.43
Standing Column (ft):
Well Diameter (in): 2
Standing Volume (gal,liter):
Screened Interval (ftbtoc): 11.43-21.43

Purging Information

Well Casing Volumes: 1" = 0.04 gal/ft = 0.15 L/ft, 2" = 0.16 gal/ft = 0.62 L/ft, 4" = 0.65 gal/ft = 2.47 L/ft, 6" = 1.47 gal/ft = 5.56 L/ft

| Time | DTW (ftbtoc) | Purge Rate (gpm,lpm) | Volume Purged (gal,liter) | pH | Specific Cond. (mS/m) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (ºC) | Other | ORP (mV) | Comments / Observations (color, odor, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1307 | 15.22 | 200 | ml/m | Start | Purge | — | — | — | — | — | |
| 1310 | 15.41 | ↓ | ↓ | 6.67 | 0.648 | 48.6 | 4.36 | 18.77 | | 169.6 | Turbid Sl. odor |
| 1313 | 16.16 | | | 5.67 | 0.617 | 53.3 | 3.54 | 18.54 | | 203.7 | " " |
| 1316 | 16.22 | | | 5.58 | 0.622 | 49.8 | 4.81 | 19.02 | | 215.6 | " " |
| 1319 | 16.15 | | | 5.57 | 0.622 | 54.4 | 4.21 | 21.07 | | 224.7 | " " |
| 1322 | 16.29 | | | 5.58 | 0.617 | 60.6 | 4.38 | 20.55 | | 228.5 | " " |
| 1325 | 16.48 | | | 5.61 | 0.612 | 60.9 | 4.12 | 20.02 | | 233.9 | " " |
| 1328 | 16.62 | | | 5.64 | 0.611 | 76.6 | 4.12 | 19.82 | | 236.8 | " " |
| 1331 | 16.79 | | | 5.66 | 0.611 | 101.8 | 3.85 | 19.92 | | 239.8 | Very Turbid (Brown) |
| 1334 | 16.94 | | | 5.66 | 0.613 | 106.3 | 3.44 | 20.07 | | 244.1 | " " |
| 1337 | 17.02 | | | 5.67 | 0.621 | 164.7 | 3.31 | 19.81 | | 251.0 | " " |
| 1340 | 17.43 | | | 5.68 | 0.615 | 175.0 | 2.99 | 19.77 | | 250.3 | " " |
| 1343 | 17.59 | | | 5.65 | 0.614 | 170.0 | 2.83 | 19.66 | | 254.3 | " " |
| 1346 | 17.83 | ↓ | ↓ | 5.65 | 0.611 | 179.5 | 2.71 | 19.59 | | 257.8 | " " |
| 3@3-5 m. | | | | +/- 0.1 | 3% | 10% | 10% | 3% | | +/- 10 mV | |

Sampling Information

Sample Identity: MW-16 Sample Time: 1350 TRC Personnel: Zach Pedersen

| Analysis | Number | Size | Type | Analysis | Number | Size | Type |
|---|---|---|---|---|---|---|---|
| VOCs | 3 | 40ml | VOC vials (HCL) | | | | |
| SVOCs | 1 | 1000ml | glass | | | | |
| ETPH | 1 | 1000ml | glass | | | | |
| Metals | 1 | 200ml | Plastic (HN03) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Sampling method for all analyses = peristaltic pump with tygon and silicon tubing, EXCEPT VOCs, which are sampled with a dedicated bailer.

# APPENDIX C

# LABORATORY ANALYTICAL REPORTS

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 31, 2012

Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: VERNON MAINT FACILITY
Sample ID#s: BB87997 - BB88008

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

# SDG Comments

May 31, 2012

SDG I.D.: GBB87997

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/18/12 | 8:20 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB87997

Project ID: VERNON MAINT FACILITY

Client ID: FB-051812

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 05/19/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/18/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 05/21/12 | | F/X | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 05/21/12 | | F/X | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 05/23/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 05/23/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 78 | | % | 05/23/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: FB-051812

Phoenix I.D.: BB87997

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 05/19/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 05/19/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 05/19/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 05/19/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 05/19/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 05/19/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 05/19/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: FB-051812

Phoenix I.D.: BB87997

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 05/19/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 05/19/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 91 | | % | 05/19/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 93 | | % | 05/19/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 05/19/12 | | R/T | 70 - 130 % |
| **Semivolatiles by SIM** | | | | | | | |
| 2-Methylnaphthalene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Acenaphthene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Acenaphthylene | ND | 0.30 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Anthracene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Benz(a)anthracene | ND | 0.020 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Benzo(a)pyrene | ND | 0.020 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Benzo(b)fluoranthene | ND | 0.020 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Benzo(ghi)perylene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Benzo(k)fluoranthene | ND | 0.020 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Chrysene | ND | 0.020 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Fluoranthene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Fluorene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.020 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Naphthalene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Phenanthrene | ND | 0.070 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| Pyrene | ND | 2.5 | ug/L | 05/22/12 | | DD | 8270(SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 66 | | % | 05/22/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 66 | | % | 05/22/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 131 | | % | 05/22/12 | | DD | 30 - 130 % 3 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

## Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 8:30 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB87998

Project ID: VERNON MAINT FACILITY

Client ID: SB1 10-12

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 4.03 | 0.38 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 92 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 11 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 81 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.4 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB1 10-12

Phoenix I.D.: BB87998

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 28 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 110 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.4 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 34 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB1 10-12

Phoenix I.D.: BB87998

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.7 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 94 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Anthracene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Chrysene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluoranthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluorene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Naphthalene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Phenanthrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Pyrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 92 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 74 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 139 | | % | 05/18/12 | | DD | 30 - 130 % 3 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

## Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 9:05 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB87999

Project ID: VERNON MAINT FACILITY

Client ID: SB2 10-11

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 2.99 | 0.38 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 87 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 11 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 81 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB2 10-11

Phoenix I.D.: BB87999

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 110 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 32 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB2 10-11

Phoenix I.D.: BB87999

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 94 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Anthracene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Chrysene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluoranthene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluorene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Naphthalene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Phenanthrene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Pyrene | ND | 260 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 89 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 80 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 150 | | % | 05/18/12 | | DD | 30 - 130 % 3 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

## Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 9:30 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88000

Project ID: VERNON MAINT FACILITY

Client ID: SB3 10-12

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 2.93 | 0.35 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 91 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 11 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 98 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB3 10-12

Phoenix I.D.: BB88000

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 100 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 31 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB3 10-12

Phoenix I.D.: BB88000

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 96 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Anthracene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Chrysene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluoranthene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluorene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Naphthalene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Phenanthrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Pyrene | ND | 250 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 88 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 77 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 137 | | % | 05/18/12 | | DD | 30 - 130 % 3 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

## Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 10:10 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88001

Project ID: VERNON MAINT FACILITY

Client ID: SB4 12-14

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 3.22 | 0.36 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 96 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 10 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 93 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB4 12-14

Phoenix I.D.: BB88001

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 100 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 31 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB4 12-14

Phoenix I.D.: BB88001

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 86 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 97 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 96 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Anthracene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Chrysene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluoranthene | 250 | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Fluorene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Naphthalene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Phenanthrene | ND | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| Pyrene | 310 | 240 | ug/Kg | 05/18/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 94 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 05/18/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 150 | | % | 05/18/12 | | DD | 30 - 130 % 3 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

## Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 10:40 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88002

Project ID: VERNON MAINT FACILITY

Client ID: SB5 12-14

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 4.97 | 0.36 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 93 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 10 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 57 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.0 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB5 12-14

Phoenix I.D.: BB88002

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 25 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 25 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 100 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.0 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 30 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB5 12-14

Phoenix I.D.: BB88002

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 95 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 101 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 87 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 76 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 130 | | % | 05/19/12 | | DD | 30 - 130 % |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

**Phyllis Shiller, Laboratory Director**

**May 31, 2012**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 11:55 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88003

Project ID: VERNON MAINT FACILITY

Client ID: SB7 12-14

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 3.99 | 0.36 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 92 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 11 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 89 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB7 12-14

Phoenix I.D.: BB88003

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 27 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 27 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 110 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 32 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB7 12-14

Phoenix I.D.: BB88003

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 95 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 101 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | 260 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 93 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 79 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 128 | | % | 05/19/12 | | DD | 30 - 130 % |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

**Phyllis Shiller, Laboratory Director**

**May 31, 2012**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 13:00 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88004

Project ID: VERNON MAINT FACILITY

Client ID: SB8 12-14

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 2.88 | 0.35 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 95 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 10 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 94 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.3 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB8 12-14

Phoenix I.D.: BB88004

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 28 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 28 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Acetone | ND | 110 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Benzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Bromoform | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Chloroform | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.3 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 33 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Styrene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Toluene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB8 12-14

Phoenix I.D.: BB88004

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.5 | ug/Kg | 05/22/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 05/22/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 87 | | % | 05/22/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 100 | | % | 05/22/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 106 | | % | 05/22/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 88 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 75 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 121 | | % | 05/19/12 | | DD | 30 - 130 % |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 31, 2012
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 13:40 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88005

Project ID: VERNON MAINT FACILITY

Client ID: SB9 10-12

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 2.20 | 0.37 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 95 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 10 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 87 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 2.8 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB9 10-12

Phoenix I.D.: BB88005

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 23 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 23 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 93 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 2.8 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 28 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 9.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 9.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB9 10-12

Phoenix I.D.: BB88005

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 9.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 4.6 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 93 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 100 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 82 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 73 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 130 | | % | 05/19/12 | | DD | 30 - 130 % |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
May 31, 2012
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 14:20 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88006

Project ID: VERNON MAINT FACILITY

Client ID: SB10 10-12

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 4.56 | 0.37 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 93 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 10 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 93 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB10 10-12

Phoenix I.D.: BB88006

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 110 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 32 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB10 10-12

Phoenix I.D.: BB88006

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 94 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 91 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 74 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 155 | | % | 05/19/12 | | DD | 30 - 130 % 3 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

## Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 15:00 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88007

Project ID: VERNON MAINT FACILITY

Client ID: SB11 12-14

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 5.29 | 0.34 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 95 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/F | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 20 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 90 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB11 12-14

Phoenix I.D.: BB88007

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 100 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 31 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB11 12-14

Phoenix I.D.: BB88007

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.1 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 94 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 102 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | 280 | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | ND | 240 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 92 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 92 | | % | 05/19/12 | | DD | 30 - 130 % |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 31, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 05/18/12 | 15:05 |
| Location Code: | TRC-DAS | Received by: | LB | 05/18/12 | 16:29 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986X | | | | |

## Laboratory Data

SDG ID: GBB87997
Phoenix ID: BB88008

Project ID: VERNON MAINT FACILITY

Client ID: SB11A 12-14

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 5.54 | 0.34 | mg/Kg | 05/21/12 | | LK | 6010 |
| Total Metals Digest | Completed | | | 05/18/12 | | AG | SW846 - 3050 |
| Percent Solid | 95 | | % | 05/18/12 | | JL | E160.3 |
| Soil Extraction SVOA BN | Completed | | | 05/18/12 | | SB/F | SW3545 |
| Extraction of CT ETPH | Completed | | | 05/18/12 | | SS/FF | 3545 |
| Field Extraction | Completed | | | 05/18/12 | | TRC | SW5035 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 10 | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| Identification | ND | | mg/Kg | 05/21/12 | | JRB | CT ETPH/8015 |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 51 | | % | 05/21/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,1-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1,2-Trichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,1-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,3-Trichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,2-Dichloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB11A 12-14

Phoenix I.D.: BB88008

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,3-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 1,4-Dichlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2,2-Dichloropropane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Hexanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 2-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Chlorotoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| 4-Methyl-2-pentanone | ND | 26 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acetone | ND | 110 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Acrylonitrile | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Benzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromochloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromodichloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromoform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Bromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon Disulfide | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Carbon tetrachloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chlorobenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloroform | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Chloromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| cis-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromochloromethane | ND | 3.2 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromoethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dibromomethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Dichlorodifluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Ethylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Hexachlorobutadiene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Isopropylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| m&p-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl Ethyl Ketone | ND | 32 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Methylene chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Naphthalene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| n-Propylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| o-Xylene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| p-Isopropyltoluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| sec-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Styrene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| tert-Butylbenzene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrachloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Toluene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Total Xylenes | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: SB11A 12-14

Phoenix I.D.: BB88008

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,3-Dichloropropene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichloroethene | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorofluoromethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Trichlorotrifluoroethane | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| Vinyl chloride | ND | 5.3 | ug/Kg | 05/21/12 | | H/J | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Bromofluorobenzene | 95 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Dibromofluoromethane | 103 | | % | 05/21/12 | | H/J | 70 - 130 % |
| % Toluene-d8 | 98 | | % | 05/21/12 | | H/J | 70 - 130 % |
| **Polynuclear Aromatic HC** | | | | | | | |
| 2-Methylnaphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Acenaphthylene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benz(a)anthracene | 420 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(a)pyrene | 360 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(b)fluoranthene | 350 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(ghi)perylene | 260 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Chrysene | 390 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluoranthene | 420 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Fluorene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Naphthalene | ND | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Phenanthrene | 300 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| Pyrene | 730 | 250 | ug/Kg | 05/19/12 | | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2-Fluorobiphenyl | 88 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 05/19/12 | | DD | 30 - 130 % |
| % Terphenyl-d14 | 79 | | % | 05/19/12 | | DD | 30 - 130 % |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**May 31, 2012**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

May 31, 2012

## QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 201010, QC Sample No: BB87660 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008) | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | |
| Lead | BDL | 3.14 | 3.37 | 7.10 | 75.8 | 83.9 | 10.1 | 88.0 | 88.7 | 0.8 | 75 - 125 | 30 |
| QA/QC Batch 201024, QC Sample No: BB88081 (BB87997) | | | | | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | | | | | |
| Lead | BDL | <0.002 | <0.002 | NC | 90.3 | 92.5 | 2.4 | 90.2 | 91.3 | 1.2 | 75 - 125 | 20 |

PHOENIX

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# QA/QC Report

May 31, 2012

## QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 201099, QC Sample No: BB87472 (BB87997) | | | | | | | | | | |
| **TPH by GC (Extractable Products) - Water** | | | | | | | | | | |
| Ext. Petroleum HC | ND | 92 | 84 | 9.1 | 114 | 88 | 25.7 | 50 - 150 | 20 | r |
| % n-Pentacosane | 60 | 72 | 55 | 26.8 | 91 | 69 | 27.5 | 50 - 150 | 20 | r |
| QA/QC Batch 201184, QC Sample No: BB87756 (BB87997) | | | | | | | | | | |
| **Volatiles - Water** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 114 | 114 | 0.0 | 98 | 120 | 20.2 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 83 | 84 | 1.2 | 82 | 102 | 21.7 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 90 | 90 | 0.0 | 89 | 96 | 7.6 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 104 | 103 | 1.0 | 97 | 104 | 7.0 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 76 | 77 | 1.3 | 75 | 92 | 20.4 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 82 | 83 | 1.2 | 79 | 101 | 24.4 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 83 | 84 | 1.2 | 68 | 86 | 23.4 | 70 - 130 | 30 | m |
| 1,2,3-Trichlorobenzene | ND | 99 | 99 | 0.0 | 84 | 103 | 20.3 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 87 | 87 | 0.0 | 81 | 88 | 8.3 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 99 | 98 | 1.0 | 87 | 102 | 15.9 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 98 | 97 | 1.0 | 81 | 98 | 19.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 106 | 103 | 2.9 | 100 | 107 | 6.8 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 97 | 97 | 0.0 | 88 | 101 | 13.8 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 90 | 88 | 2.2 | 79 | 85 | 7.3 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 96 | 95 | 1.0 | 84 | 99 | 16.4 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 100 | 102 | 2.0 | 82 | 100 | 19.8 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 100 | 100 | 0.0 | 87 | 103 | 16.8 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 101 | 101 | 0.0 | 93 | 106 | 13.1 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 97 | 98 | 1.0 | 86 | 102 | 17.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 83 | 83 | 0.0 | 67 | 84 | 22.5 | 70 - 130 | 30 | m |
| 2-Chlorotoluene | ND | 99 | 100 | 1.0 | 84 | 104 | 21.3 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 79 | 79 | 0.0 | 84 | 89 | 5.8 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 95 | 94 | 1.1 | 80 | 97 | 19.2 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 96 | 96 | 0.0 | 85 | 102 | 18.2 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 85 | 83 | 2.4 | 85 | 88 | 3.5 | 70 - 130 | 30 | |
| Acetone | ND | 64 | 56 | 13.3 | 63 | 71 | 11.9 | 70 - 130 | 30 | l,m |
| Acrylonitrile | ND | 83 | 85 | 2.4 | 90 | 97 | 7.5 | 70 - 130 | 30 | |
| Benzene | ND | 94 | 93 | 1.1 | 67 | 83 | 21.3 | 70 - 130 | 30 | m |
| Bromobenzene | ND | 103 | 105 | 1.9 | 91 | 108 | 17.1 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 83 | 85 | 2.4 | 89 | 102 | 13.6 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 96 | 94 | 2.1 | 86 | 100 | 15.1 | 70 - 130 | 30 | |
| Bromoform | ND | 122 | 121 | 0.8 | 116 | 127 | 9.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 70 | 73 | 4.2 | 52 | 79 | 41.2 | 70 - 130 | 30 | m,r |
| Carbon Disulfide | ND | 72 | 74 | 2.7 | 68 | 87 | 24.5 | 70 - 130 | 30 | m |
| Carbon tetrachloride | ND | 93 | 94 | 1.1 | 79 | 101 | 24.4 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 99 | 99 | 0.0 | 85 | 104 | 20.1 | 70 - 130 | 30 | |
| Chloroethane | ND | 75 | 77 | 2.6 | 77 | 95 | 20.9 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ND | 80 | 81 | 1.2 | 80 | 96 | 18.2 | 70 - 130 | 30 | |
| Chloromethane | ND | 71 | 73 | 2.8 | 76 | 94 | 21.2 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 82 | 83 | 1.2 | 79 | 97 | 20.5 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 96 | 94 | 2.1 | 84 | 98 | 15.4 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 118 | 118 | 0.0 | 108 | 125 | 14.6 | 70 - 130 | 30 | |
| Dibromoethane | ND | 92 | 88 | 4.4 | 85 | 94 | 10.1 | 70 - 130 | 30 | |
| Dibromomethane | ND | 98 | 98 | 0.0 | 93 | 103 | 10.2 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 70 | 71 | 1.4 | 76 | 95 | 22.2 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 101 | 101 | 0.0 | 83 | 104 | 22.5 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 105 | 105 | 0.0 | 89 | 105 | 16.5 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 101 | 103 | 2.0 | 84 | 104 | 21.3 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 101 | 100 | 1.0 | 84 | 104 | 21.3 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 66 | 72 | 8.7 | 89 | 81 | 9.4 | 70 - 130 | 30 | I |
| Methyl t-butyl ether (MTBE) | ND | 78 | 77 | 1.3 | 70 | 80 | 13.3 | 70 - 130 | 30 | |
| Methylene chloride | ND | 82 | 81 | 1.2 | 84 | 97 | 14.4 | 70 - 130 | 30 | |
| Naphthalene | ND | 99 | 99 | 0.0 | 88 | 103 | 15.7 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 101 | 101 | 0.0 | 81 | 96 | 16.9 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 97 | 99 | 2.0 | 84 | 104 | 21.3 | 70 - 130 | 30 | |
| o-Xylene | ND | 98 | 99 | 1.0 | 85 | 104 | 20.1 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 107 | 107 | 0.0 | 84 | 103 | 20.3 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 97 | 99 | 2.0 | 82 | 102 | 21.7 | 70 - 130 | 30 | |
| Styrene | ND | 98 | 98 | 0.0 | 85 | 102 | 18.2 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 99 | 100 | 1.0 | 83 | 103 | 21.5 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 121 | 121 | 0.0 | 99 | 127 | 24.8 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 66 | 70 | 5.9 | 78 | 85 | 8.6 | 70 - 130 | 30 | I |
| Toluene | ND | 98 | 99 | 1.0 | 83 | 102 | 20.5 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 82 | 83 | 1.2 | 78 | 100 | 24.7 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 99 | 97 | 2.0 | 89 | 100 | 11.6 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 80 | 83 | 3.7 | 81 | 89 | 9.4 | 70 - 130 | 30 | |
| Trichloroethene | ND | 103 | 103 | 0.0 | 83 | 106 | 24.3 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 94 | 97 | 3.1 | 90 | 112 | 21.8 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 91 | 95 | 4.3 | 84 | 110 | 26.8 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 74 | 76 | 2.7 | 75 | 95 | 23.5 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 100 | 100 | 100 | 0.0 | 101 | 101 | 0.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 91 | 96 | 97 | 1.0 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 85 | 85 | 87 | 2.3 | 99 | 98 | 1.0 | 70 - 130 | 30 | |
| % Toluene-d8 | 97 | 98 | 97 | 1.0 | 99 | 96 | 3.1 | 70 - 130 | 30 | |

**Comment:**

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 201190, QC Sample No: BB87766 (BB88004)

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 100 | 105 | 4.9 | | | | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 97 | 97 | 0.0 | | | | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 87 | 86 | 1.2 | | | | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 102 | 106 | 3.8 | | | | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 96 | 99 | 3.1 | | | | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 84 | 87 | 3.5 | | | | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 96 | 99 | 3.1 | | | | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 95 | 100 | 5.1 | | | | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 94 | 100 | 6.2 | | | | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 87 | 90 | 3.4 | | | | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 92 | 94 | 2.2 | | | | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 113 | 116 | 2.6 | | | | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 88 | 91 | 3.4 | | | | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 96 | 103 | 7.0 | | | | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 101 | 105 | 3.9 | | | | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 93 | 94 | 1.1 | | | | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 88 | 91 | 3.4 | | | | 70 - 130 | 30 |
| 1,3-Dichloropropane | ND | 99 | 103 | 4.0 | | | | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 85 | 88 | 3.5 | | | | 70 - 130 | 30 |
| 2,2-Dichloropropane | ND | 93 | 95 | 2.1 | | | | 70 - 130 | 30 |
| 2-Chlorotoluene | ND | 91 | 93 | 2.2 | | | | 70 - 130 | 30 |
| 2-Hexanone | ND | 71 | 73 | 2.8 | | | | 70 - 130 | 30 |
| 2-Isopropyltoluene | ND | 94 | 97 | 3.1 | | | | 70 - 130 | 30 |
| 4-Chlorotoluene | ND | 86 | 87 | 1.2 | | | | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 100 | 101 | 1.0 | | | | 70 - 130 | 30 |
| Acetone | ND | 55 | 66 | 18.2 | | | | 70 - 130 | 30 |
| Acrylonitrile | ND | 99 | 101 | 2.0 | | | | 70 - 130 | 30 |
| Benzene | ND | 98 | 102 | 4.0 | | | | 70 - 130 | 30 |
| Bromobenzene | ND | 96 | 98 | 2.1 | | | | 70 - 130 | 30 |
| Bromochloromethane | ND | 95 | 100 | 5.1 | | | | 70 - 130 | 30 |
| Bromodichloromethane | ND | 102 | 105 | 2.9 | | | | 70 - 130 | 30 |
| Bromoform | ND | 102 | 107 | 4.8 | | | | 70 - 130 | 30 |
| Bromomethane | ND | 77 | 80 | 3.8 | | | | 70 - 130 | 30 |
| Carbon Disulfide | ND | 83 | 85 | 2.4 | | | | 70 - 130 | 30 |
| Carbon tetrachloride | ND | 98 | 99 | 1.0 | | | | 70 - 130 | 30 |
| Chlorobenzene | ND | 91 | 95 | 4.3 | | | | 70 - 130 | 30 |
| Chloroethane | ND | 83 | 87 | 4.7 | | | | 70 - 130 | 30 |
| Chloroform | ND | 96 | 98 | 2.1 | | | | 70 - 130 | 30 |
| Chloromethane | ND | 82 | 89 | 8.2 | | | | 70 - 130 | 30 |
| cis-1,2-Dichloroethene | ND | 95 | 99 | 4.1 | | | | 70 - 130 | 30 |
| cis-1,3-Dichloropropene | ND | 98 | 103 | 5.0 | | | | 70 - 130 | 30 |
| Dibromochloromethane | ND | 101 | 108 | 6.7 | | | | 70 - 130 | 30 |
| Dibromoethane | ND | 102 | 103 | 1.0 | | | | 70 - 130 | 30 |
| Dibromomethane | ND | 96 | 102 | 6.1 | | | | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 78 | 78 | 0.0 | | | | 70 - 130 | 30 |
| Ethylbenzene | ND | 94 | 97 | 3.1 | | | | 70 - 130 | 30 |
| Hexachlorobutadiene | ND | 93 | 99 | 6.3 | | | | 70 - 130 | 30 |
| Isopropylbenzene | ND | 95 | 97 | 2.1 | | | | 70 - 130 | 30 |
| m&p-Xylene | ND | 92 | 96 | 4.3 | | | | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 59 | 64 | 8.1 | | | | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 91 | 96 | 5.3 | | | | 70 - 130 | 30 |
| Methylene chloride | ND | 84 | 89 | 5.8 | | | | 70 - 130 | 30 |
| Naphthalene | ND | 103 | 108 | 4.7 | | | | 70 - 130 | 30 |
| n-Butylbenzene | ND | 90 | 91 | 1.1 | | | | 70 - 130 | 30 |
| n-Propylbenzene | ND | 88 | 90 | 2.2 | | | | 70 - 130 | 30 |
| o-Xylene | ND | 95 | 98 | 3.1 | | | | 70 - 130 | 30 |
| p-Isopropyltoluene | ND | 96 | 97 | 1.0 | | | | 70 - 130 | 30 |
| sec-Butylbenzene | ND | 93 | 93 | 0.0 | | | | 70 - 130 | 30 |
| Styrene | ND | 94 | 99 | 5.2 | | | | 70 - 130 | 30 |
| tert-Butylbenzene | ND | 95 | 97 | 2.1 | | | | 70 - 130 | 30 |
| Tetrachloroethene | ND | 98 | 97 | 1.0 | | | | 70 - 130 | 30 |
| Tetrahydrofuran (THF) | ND | 95 | 100 | 5.1 | | | | 70 - 130 | 30 |
| Toluene | ND | 97 | 100 | 3.0 | | | | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | 88 | 89 | 1.1 | | | | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 98 | 104 | 5.9 | | | | 70 - 130 | 30 |
| trans-1,4-dichloro-2-butene | ND | 96 | 100 | 4.1 | | | | 70 - 130 | 30 |
| Trichloroethene | ND | 105 | 109 | 3.7 | | | | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 87 | 88 | 1.1 | | | | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 85 | 85 | 0.0 | | | | 70 - 130 | 30 |
| Vinyl chloride | ND | 83 | 85 | 2.4 | | | | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 98 | 100 | 101 | 1.0 | | | | 70 - 130 | 30 |
| % Bromofluorobenzene | 98 | 100 | 101 | 1.0 | | | | 70 - 130 | 30 |
| % Dibromofluoromethane | 101 | 105 | 105 | 0.0 | | | | 70 - 130 | 30 |
| % Toluene-d8 | 100 | 100 | 101 | 1.0 | | | | 70 - 130 | 30 |

**Comment:**

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 201178, QC Sample No: BB88002 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88005, BB88006)

## Volatiles - Soil

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 107 | 105 | 1.9 | | | | 70 - 130 | 30 |
| 1,1,1-Trichloroethane | ND | 100 | 98 | 2.0 | | | | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 84 | 82 | 2.4 | | | | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 105 | 106 | 0.9 | | | | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 99 | 100 | 1.0 | | | | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 96 | 97 | 1.0 | | | | 70 - 130 | 30 |
| 1,1-Dichloropropene | ND | 102 | 100 | 2.0 | | | | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 94 | 95 | 1.1 | | | | 70 - 130 | 30 |
| 1,2,3-Trichloropropane | ND | 99 | 99 | 0.0 | | | | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 84 | 85 | 1.2 | | | | 70 - 130 | 30 |
| 1,2,4-Trimethylbenzene | ND | 96 | 97 | 1.0 | | | | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 109 | 105 | 3.7 | | | | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 93 | 95 | 2.1 | | | | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 103 | 101 | 2.0 | | | | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 105 | 106 | 0.9 | | | | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 97 | 98 | 1.0 | | | | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 90 | 91 | 1.1 | | | | 70 - 130 | 30 |
| 1,3-Dichloropropane | ND | 103 | 100 | 3.0 | | | | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 87 | 89 | 2.3 | | | | 70 - 130 | 30 |
| 2,2-Dichloropropane | ND | 96 | 94 | 2.1 | | | | 70 - 130 | 30 |
| 2-Chlorotoluene | ND | 97 | 96 | 1.0 | | | | 70 - 130 | 30 |
| 2-Hexanone | ND | 77 | 75 | 2.6 | | | | 70 - 130 | 30 |
| 2-Isopropyltoluene | ND | 100 | 100 | 0.0 | | | | 70 - 130 | 30 |
| 4-Chlorotoluene | ND | 89 | 90 | 1.1 | | | | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 95 | 92 | 3.2 | | | | 70 - 130 | 30 |
| Acetone | ND | 80 | 76 | 5.1 | | | | 70 - 130 | 30 |
| Acrylonitrile | ND | 96 | 93 | 3.2 | | | | 70 - 130 | 30 |
| Benzene | ND | 102 | 103 | 1.0 | | | | 70 - 130 | 30 |
| Bromobenzene | ND | 101 | 102 | 1.0 | | | | 70 - 130 | 30 |
| Bromochloromethane | ND | 102 | 99 | 3.0 | | | | 70 - 130 | 30 |
| Bromodichloromethane | ND | 107 | 105 | 1.9 | | | | 70 - 130 | 30 |
| Bromoform | ND | 109 | 108 | 0.9 | | | | 70 - 130 | 30 |
| Bromomethane | ND | 92 | 93 | 1.1 | | | | 70 - 130 | 30 |
| Carbon Disulfide | ND | 96 | 95 | 1.0 | | | | 70 - 130 | 30 |
| Carbon tetrachloride | ND | 102 | 103 | 1.0 | | | | 70 - 130 | 30 |
| Chlorobenzene | ND | 98 | 96 | 2.1 | | | | 70 - 130 | 30 |
| Chloroethane | ND | 97 | 97 | 0.0 | | | | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ND | 100 | 100 | 0.0 | | | | 70 - 130 | 30 | |
| Chloromethane | ND | 94 | 94 | 0.0 | | | | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 100 | 100 | 0.0 | | | | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 100 | 98 | 2.0 | | | | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 109 | 106 | 2.8 | | | | 70 - 130 | 30 | |
| Dibromoethane | ND | 102 | 102 | 0.0 | | | | 70 - 130 | 30 | |
| Dibromomethane | ND | 101 | 102 | 1.0 | | | | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 93 | 91 | 2.2 | | | | 70 - 130 | 30 | |
| Ethylbenzene | ND | 99 | 99 | 0.0 | | | | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 99 | 96 | 3.1 | | | | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 101 | 101 | 0.0 | | | | 70 - 130 | 30 | |
| m&p-Xylene | ND | 97 | 97 | 0.0 | | | | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 73 | 71 | 2.8 | | | | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 102 | 101 | 1.0 | | | | 70 - 130 | 30 | |
| Methylene chloride | ND | 96 | 96 | 0.0 | | | | 70 - 130 | 30 | |
| Naphthalene | ND | 100 | 101 | 1.0 | | | | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 94 | 95 | 1.1 | | | | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 94 | 94 | 0.0 | | | | 70 - 130 | 30 | |
| o-Xylene | ND | 100 | 100 | 0.0 | | | | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 101 | 101 | 0.0 | | | | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 99 | 98 | 1.0 | | | | 70 - 130 | 30 | |
| Styrene | ND | 98 | 98 | 0.0 | | | | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 101 | 101 | 0.0 | | | | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 102 | 101 | 1.0 | | | | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 95 | 91 | 4.3 | | | | 70 - 130 | 30 | |
| Toluene | ND | 100 | 101 | 1.0 | | | | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 96 | 95 | 1.0 | | | | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 102 | 100 | 2.0 | | | | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 96 | 93 | 3.2 | | | | 70 - 130 | 30 | |
| Trichloroethene | ND | 113 | 114 | 0.9 | | | | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 103 | 102 | 1.0 | | | | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 101 | 98 | 3.0 | | | | 70 - 130 | 30 | |
| Vinyl chloride | ND | 96 | 96 | 0.0 | | | | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 99 | 99 | 100 | 1.0 | | | | 70 - 130 | 30 | |
| % Bromofluorobenzene | 96 | 98 | 99 | 1.0 | | | | 70 - 130 | 30 | |
| % Dibromofluoromethane | 100 | 104 | 103 | 1.0 | | | | 70 - 130 | 30 | |
| % Toluene-d8 | 99 | 98 | 99 | 1.0 | | | | 70 - 130 | 30 | |

**Comment:**

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 201180, QC Sample No: BB88007 (BB88007, BB88008)

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 105 | 107 | 1.9 | 97 | 101 | 4.0 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 98 | 99 | 1.0 | 94 | 99 | 5.2 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 81 | 73 | 10.4 | 62 | 71 | 13.5 | 70 - 130 | 30 | m |
| 1,1,2-Trichloroethane | ND | 105 | 107 | 1.9 | 100 | 102 | 2.0 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 98 | 99 | 1.0 | 95 | 99 | 4.1 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 88 | 90 | 2.2 | 87 | 93 | 6.7 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 98 | 102 | 4.0 | 95 | 102 | 7.1 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 85 | 93 | 9.0 | 79 | 88 | 10.8 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 100 | 103 | 3.0 | 94 | 99 | 5.2 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 75 | 78 | 3.9 | 65 | 74 | 12.9 | 70 - 130 | 30 | m |
| 1,2,4-Trimethylbenzene | ND | 90 | 92 | 2.2 | 82 | 87 | 5.9 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ND | 114 | 124 | 8.4 | 99 | 111 | 11.4 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 87 | 91 | 4.5 | 84 | 88 | 4.7 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 102 | 103 | 1.0 | 97 | 101 | 4.0 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 105 | 107 | 1.9 | 102 | 104 | 1.9 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 92 | 94 | 2.2 | 84 | 89 | 5.8 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 83 | 85 | 2.4 | 77 | 84 | 8.7 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 104 | 105 | 1.0 | 99 | 102 | 3.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 80 | 83 | 3.7 | 75 | 81 | 7.7 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 89 | 94 | 5.5 | 81 | 87 | 7.1 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 90 | 92 | 2.2 | 86 | 89 | 3.4 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 69 | 84 | 19.6 | 85 | 88 | 3.5 | 70 - 130 | 30 | I |
| 2-Isopropyltoluene | ND | 93 | 98 | 5.2 | 94 | 100 | 6.2 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 82 | 84 | 2.4 | 80 | 85 | 6.1 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 99 | 103 | 4.0 | 98 | 105 | 6.9 | 70 - 130 | 30 | |
| Acetone | ND | 62 | 77 | 21.6 | 85 | 85 | 0.0 | 70 - 130 | 30 | I |
| Acrylonitrile | ND | 96 | 102 | 6.1 | 100 | 104 | 3.9 | 70 - 130 | 30 | |
| Benzene | ND | 100 | 103 | 3.0 | 96 | 102 | 6.1 | 70 - 130 | 30 | |
| Bromobenzene | ND | 96 | 98 | 2.1 | 91 | 94 | 3.2 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 99 | 101 | 2.0 | 96 | 99 | 3.1 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 104 | 107 | 2.8 | 99 | 102 | 3.0 | 70 - 130 | 30 | |
| Bromoform | ND | 102 | 108 | 5.7 | 99 | 102 | 3.0 | 70 - 130 | 30 | |
| Bromomethane | ND | 81 | 84 | 3.6 | 80 | 91 | 12.9 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 88 | 89 | 1.1 | 93 | 102 | 9.2 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 100 | 103 | 3.0 | 95 | 102 | 7.1 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 92 | 94 | 2.2 | 88 | 92 | 4.4 | 70 - 130 | 30 | |
| Chloroethane | ND | 84 | 92 | 9.1 | 89 | 100 | 11.6 | 70 - 130 | 30 | |
| Chloroform | ND | 98 | 101 | 3.0 | 94 | 98 | 4.2 | 70 - 130 | 30 | |
| Chloromethane | ND | 87 | 94 | 7.7 | 101 | 111 | 9.4 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 98 | 102 | 4.0 | 93 | 98 | 5.2 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 96 | 99 | 3.1 | 94 | 97 | 3.1 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 105 | 111 | 5.6 | 101 | 104 | 2.9 | 70 - 130 | 30 | |
| Dibromoethane | ND | 103 | 106 | 2.9 | 99 | 102 | 3.0 | 70 - 130 | 30 | |
| Dibromomethane | ND | 100 | 104 | 3.9 | 99 | 100 | 1.0 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 88 | 93 | 5.5 | 113 | 116 | 2.6 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 95 | 97 | 2.1 | 89 | 94 | 5.5 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 91 | 98 | 7.4 | 86 | 95 | 9.9 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 95 | 98 | 3.1 | 91 | 96 | 5.3 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 92 | 94 | 2.2 | 86 | 92 | 6.7 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 63 | 76 | 18.7 | 90 | 91 | 1.1 | 70 - 130 | 30 | I |
| Methyl t-butyl ether (MTBE) | ND | 97 | 99 | 2.0 | 96 | 99 | 3.1 | 70 - 130 | 30 | |
| Methylene chloride | ND | 89 | 90 | 1.1 | 85 | 88 | 3.5 | 70 - 130 | 30 | |
| Naphthalene | ND | 100 | 108 | 7.7 | 91 | 103 | 12.4 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 87 | 88 | 1.1 | 74 | 82 | 10.3 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 87 | 90 | 3.4 | 85 | 89 | 4.6 | 70 - 130 | 30 | |
| o-Xylene | ND | 95 | 98 | 3.1 | 93 | 99 | 6.3 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 93 | 97 | 4.2 | 82 | 89 | 8.2 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 92 | 96 | 4.3 | 88 | 94 | 6.6 | 70 - 130 | 30 | |
| Styrene | ND | 94 | 97 | 3.1 | 92 | 96 | 4.3 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 95 | 99 | 4.1 | 92 | 97 | 5.3 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 96 | 99 | 3.1 | 91 | 96 | 5.3 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 96 | 100 | 4.1 | 98 | 102 | 4.0 | 70 - 130 | 30 | |
| Toluene | ND | 97 | 100 | 3.0 | 92 | 97 | 5.3 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 89 | 91 | 2.2 | 83 | 89 | 7.0 | 70 - 130 | 30 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 94 | 99 | 5.2 | 90 | 93 | 3.3 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 87 | 90 | 3.4 | 81 | 86 | 6.0 | 70 - 130 | 30 | |
| Trichloroethene | ND | 112 | 124 | 10.2 | 118 | 120 | 1.7 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 91 | 94 | 3.2 | 86 | 94 | 8.9 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 89 | 94 | 5.5 | 90 | 98 | 8.5 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 88 | 92 | 4.4 | 92 | 101 | 9.3 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 98 | 102 | 102 | 0.0 | 102 | 101 | 1.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 96 | 100 | 101 | 1.0 | 102 | 102 | 0.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 100 | 104 | 104 | 0.0 | 104 | 106 | 1.9 | 70 - 130 | 30 | |
| % Toluene-d8 | 99 | 100 | 100 | 0.0 | 101 | 102 | 1.0 | 70 - 130 | 30 | |

**Comment:**

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 201021, QC Sample No: BB88008 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008)

## TPH by GC (Extractable Products) - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ext. Petroleum HC | ND | 103 | 93 | 10.2 | 104 | 76 | 31.1 | 50 - 150 | 30 | r |
| % n-Pentacosane | 66 | 88 | 81 | 8.3 | 100 | 90 | 10.5 | 50 - 150 | 30 | |

QA/QC Batch 201006, QC Sample No: BB88008 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008)

## Polynuclear Aromatic HC - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | ND | 61 | 72 | 16.5 | 85 | 83 | 2.4 | 30 - 130 | 30 | |
| Acenaphthene | ND | 64 | 73 | 13.1 | 86 | 86 | 0.0 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 65 | 74 | 12.9 | 90 | 88 | 2.2 | 30 - 130 | 30 | |
| Anthracene | ND | 65 | 79 | 19.4 | 93 | 92 | 1.1 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 63 | 72 | 13.3 | 80 | 77 | 3.8 | 30 - 130 | 30 | |
| Benzo(a)pyrene | ND | 64 | 76 | 17.1 | 84 | 80 | 4.9 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 71 | 87 | 20.3 | 107 | 102 | 4.8 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 54 | 65 | 18.5 | 106 | 102 | 3.8 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 75 | 87 | 14.8 | 101 | 101 | 0.0 | 30 - 130 | 30 | |
| Chrysene | ND | 58 | 68 | 15.9 | 71 | 69 | 2.9 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 55 | 68 | 21.1 | 101 | 99 | 2.0 | 30 - 130 | 30 | |
| Fluoranthene | ND | 64 | 78 | 19.7 | 127 | 126 | 0.8 | 30 - 130 | 30 | |
| Fluorene | ND | 61 | 73 | 17.9 | 84 | 83 | 1.2 | 30 - 130 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 56 | 67 | 17.9 | 101 | 98 | 3.0 | 30 - 130 | 30 | |
| Naphthalene | ND | 61 | 70 | 13.7 | 84 | 81 | 3.6 | 30 - 130 | 30 | |
| Phenanthrene | ND | 67 | 79 | 16.4 | 100 | 97 | 3.0 | 30 - 130 | 30 | |
| Pyrene | ND | 67 | 80 | 17.7 | 146 | 138 | 5.6 | 30 - 130 | 30 | m |
| % 2-Fluorobiphenyl | 73 | 69 | 73 | 5.6 | 86 | 86 | 0.0 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 68 | 60 | 65 | 8.0 | 73 | 75 | 2.7 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 80 | 81 | 90 | 10.5 | 138 | 148 | 7.0 | 30 - 130 | 30 | m |

**Comment:**

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 201100, QC Sample No: BB88114 (BB87997)

## Semivolatiles - Water

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | ND | 71 | 71 | 0.0 | | | | 30 - 130 | 20 | |
| Acenaphthene | ND | 71 | 70 | 1.4 | | | | 30 - 130 | 20 | |
| Acenaphthylene | ND | 37 | 37 | 0.0 | | | | 30 - 130 | 20 | |
| Anthracene | ND | 74 | 74 | 0.0 | | | | 30 - 130 | 20 | |
| Benz(a)anthracene | ND | 88 | 89 | 1.1 | | | | 30 - 130 | 20 | |

# QA/QC Data

SDG I.D.: GBB87997

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | ND | 61 | 61 | 0.0 | | | | 30 - 130 | 20 |
| Benzo(b)fluoranthene | ND | 79 | 81 | 2.5 | | | | 30 - 130 | 20 |
| Benzo(ghi)perylene | ND | 89 | 90 | 1.1 | | | | 30 - 130 | 20 |
| Benzo(k)fluoranthene | ND | 78 | 79 | 1.3 | | | | 30 - 130 | 20 |
| Chrysene | ND | 90 | 90 | 0.0 | | | | 30 - 130 | 20 |
| Dibenz(a,h)anthracene | ND | 89 | 90 | 1.1 | | | | 30 - 130 | 20 |
| Fluoranthene | ND | 79 | 79 | 0.0 | | | | 30 - 130 | 20 |
| Fluorene | ND | 79 | 80 | 1.3 | | | | 30 - 130 | 20 |
| Indeno(1,2,3-cd)pyrene | ND | 87 | 88 | 1.1 | | | | 30 - 130 | 20 |
| Naphthalene | ND | 67 | 67 | 0.0 | | | | 30 - 130 | 20 |
| Phenanthrene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 |
| Pyrene | ND | 74 | 75 | 1.3 | | | | 30 - 130 | 20 |
| % 2-Fluorobiphenyl | 74 | 66 | 65 | 1.5 | | | | 30 - 130 | 20 |
| % Nitrobenzene-d5 | 71 | 73 | 73 | 0.0 | | | | 30 - 130 | 20 |
| % Terphenyl-d14 | 96 | 75 | 75 | 0.0 | | | | 30 - 130 | 20 |

**Comment:**

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

**If there are any questions regarding this data, please call Phoenix Client Services at extension 200.**

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 31, 2012

# Sample Criteria Exceedences Report



Requested Criteria: GAM, GWP, RC, SWP

**GBB87997**

| SampNo | LocCode | Acode | Phoenix Analyte | Criteria Units | ST | State Category | Criteria Name | Result | RL | Factored Criteria | Factored RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BB87997 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB87997 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

# Reasonable Confidence Protocol
# Laboratory Analysis QA/QC Certification Form

**Laboratory Name:** Phoenix Environmental Labs, Inc. **Client:** TRC-DAS

**Project Location:** VERNON MAINT FACILITY **Project Number:**

**Laboratory Sample ID(s):** BB87997, BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008

**Sampling Date(s):** 5/18/2012

**RCP Methods Used:**

☐ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

| | | |
|---|---|---|
| 1. | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents? | ☑ Yes ☐ No |
| 1a. | Were the method specified preservation and holding time requirements met? | ☑ Yes ☐ No |
| 1b. | EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods) | ☐ Yes ☐ No ☑ NA |
| 2. | Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)? | ☑ Yes ☐ No |
| 3. | Were samples received at an appropriate temperature (< 6 Degrees C)? | ☐ Yes ☑ No ☐ NA |
| 4. | Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, SVOA Narration, VOA Narration. | ☐ Yes ☑ No |
| 5a. | Were reporting limits specified or referenced on the chain-of-custody? | ☑ Yes ☐ No |
| 5b. | Were these reporting limits met? | ☐ Yes ☑ No ☐ NA |
| 6. | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? | ☐ Yes ☑ No ☐ NA |
| 7. | Are project-specific matrix spikes and laboratory duplicates included in the data set? | ☑ Yes ☐ No ☐ NA |

**Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".**

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

Authorized Signature: MaTaylor

Date: Thursday, May 31, 2012

Printed Name: Maryam Taylor

Position: Project Manager

PHOENIX

**Environmental Laboratories, Inc.**
**587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045**
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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

Volatile 8260 analysis:
The reporting level for Acrylonitrile is above the GWP criteria.
Dibromoethane doesn't meet GWP criteria, this compound is analyzed by GC/ECD method 504 or 8011 when this criteria needs to be met.

## ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

**QC Batch 201099 (Samples: BB87997): -----**

**The LCS/LCSD RPD for one or more surrogates is outside of criteria. (% n-Pentacosane)**

**The LCS/LCSD RPD is outside of criteria Analytes were not detected. No variability is susupected.. (Ext.Petroleum HC)**

**QC Batch 201021 (Samples: BB87998,BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008 ): -----**

**The LCS/LCSD RPD for one or more surrogates is outside of criteria. (% n-Pentacosane)**

**The LCS/LCSD RPD is outside of criteria Analytes were not detected. No variability is susupected.. (Ext.Petroleum HC)**

**Instrument:** Au-fid1 05/21/12-2 (BB87998, BB87999, BB88000)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

**Printed Name** Jeff Bucko
**Position:** Chemist
**Date:** 5/21/2012

**Instrument:** Au-fid1 05/21/12-3 (BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88008)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

**Printed Name** Jeff Bucko
**Position:** Chemist
**Date:** 5/21/2012

**Instrument:** Au-fid1 05/23/12-1 (BB87997)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

**Printed Name** Jeff Bucko
**Position:** Chemist
**Date:** 5/23/2012

**Instrument:** Au-fid84 05/21/12-3 (BB88007)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

**Printed Name** Jeff Bucko
**Position:** Chemist
**Date:** 5/21/2012

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

**QC (Site Specific)**

---------- Sample No: BB88008, QA/QC Batch: 201021 ----------

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: Ext. Petroleum HC(31.1%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

**QC (Batch Specific)**

---------- Sample No: BB87472, QA/QC Batch: 201099 ----------

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % n-Pentacosane(26.8%)

## ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Icp10 05/18/12-1 (BB87997)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

**Printed Name** Laura Kinnin
**Position:** Chemist
**Date:** 5/18/2012

**Instrument:** Icp10 05/19/12-1 (BB87997)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

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**Printed Name** Laura Kinnin
**Position:** Chemist
**Date:** 5/19/2012

**Instrument:** Icp9 05/20/12-1 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

**Printed Name** Laura Kinnin
**Position:** Chemist
**Date:** 5/20/2012

**Instrument:** Icp9 05/21/12-1 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

**Printed Name** Laura Kinnin
**Position:** Chemist
**Date:** 5/21/2012

### QC (Batch Specific)

---------- Sample No: BB87660, QA/QC Batch: 201010 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BB88081, QA/QC Batch: 201024 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

## PAH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Chem06 05/18/12-1 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem06/BN_0511):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: None.

**Printed Name** Damien Drobinski
**Position:** Chemist
**Date:** 5/18/2012

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

**QC (Site Specific)**

---------- Sample No: BB88008, QA/QC Batch: 201006 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 130 with the following exceptions: % Terphenyl-d14(138%), Pyrene(146%)

All MSD recoveries were within 30 - 130 with the following exceptions: % Terphenyl-d14(148%), Pyrene(138%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

**QC (Batch Specific)**

---------- Sample No: BB88114, QA/QC Batch: 201100 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

**QC Batch 201006 (Samples: BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88004, BB88005, BB88006, BB88007, BB88008): -----**

**The MSD recovery for one or more surrogates is outside of criteria. (% Terphenyl-d14)**

**The MS and/or MSD recovery is above the upper range. All other QC is within criteria. No significant bias is susupected.. (Pyrene)**

**QC Comments:** QC Batch 01100 05/21/12 (BB87997)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

PHOENIX

**Environmental Laboratories, Inc.**
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

**QC (Site Specific)**

---------- Sample No: BB88008, QA/QC Batch: 201006 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 130 with the following exceptions: % Terphenyl-d14(138%), Pyrene(146%)

All MSD recoveries were within 30 - 130 with the following exceptions: % Terphenyl-d14(148%), Pyrene(138%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

**QC (Batch Specific)**

---------- Sample No: BB88114, QA/QC Batch: 201100 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Chem04 05/22/12-1 (BB87997)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0511):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Bis(2-ethylhexyl)phthalate

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Pentachlorophenol

**Printed Name** Damien Drobinski
**Position:** Chemist
**Date:** 5/22/2012

**QC Comments:** QC Batch 01100 05/21/12 (BB87997)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

**QC Batch 201180 (Samples: BB88007, BB88008): -----**

**The LCS and/or the LCSD recovery is below the lower range, but within the method criteria. A slight low bias is possible. (2-Hexanone, Acetone, Methyl ethyl ketone)**

**The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene)**

**QC Batch 201184 (Samples: BB87997): -----**

**The LCS and/or the LCSD recovery is below the lower range, but within the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Methyl ethyl ketone, Tetrahydrofuran (THF))**

**The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone)**

**QC Batch 201190 (Samples: BB88004): -----**

**The LCS/LCSD recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Acetone, Methyl ethyl ketone)**

**Instrument:** Chem08 05/18/12-3 (BB87997)

S -Side
Initial Calibration(RCPS_0507:
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
All SPCCs, CCCs and >80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds had % Deviations >30%:: Bromomethane, Acetone

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# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

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**Printed Name** Tina Covensky
**Position:** Chemist
**Date:** 5/18/2012

**Instrument:** Chem11 05/20/12-2 (BB87998, BB87999, BB88000, BB88001, BB88002, BB88003, BB88005, BB88006)

Initial Calibration Verification (CHEM11/RCPS_0518):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: None.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >30%:

**Printed Name** Johanna Harrington
**Position:** Chemist
**Date:** 5/20/2012

**Instrument:** Chem11 05/20/12-3 (BB88007, BB88008)

Initial Calibration Verification (CHEM11/RCPS_0518):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: None.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >30%: 1,2,4-Trichlorobenzene

**Printed Name** Johanna Harrington
**Position:** Chemist
**Date:** 5/20/2012

**Instrument:** Chem11 05/21/12-1 (BB88004)

Initial Calibration Verification (CHEM11/RCPS_0518):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: None.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >30%:

**Printed Name** Johanna Harrington
**Position:** Chemist
**Date:** 5/21/2012

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**Tel. (860) 645-1102 Fax (860) 645-0823**

# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

**QC Comments:** QC Batch 01184 05/22/12 (BB87997)

A blank MS/MSD was analyzed with this batch.

**QC Comments:** QC Batch 01180 05/22/12 (BB88007, BB88008)

A blank MS/MSD was analyzed with this batch.

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

**QC (Site Specific)**

---------- Sample No: BB88002, QA/QC Batch: 201178 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BB88007, QA/QC Batch: 201180 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(69%), Acetone(62%), Methyl ethyl ketone(63%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,1,2,2-Tetrachloroethane(62%), 1,2,4-Trichlorobenzene(65%)

All MSD recoveries were within 70 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

**QC (Batch Specific)**

---------- Sample No: BB87756, QA/QC Batch: 201184 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(64%), Methyl ethyl ketone(66%), Tetrahydrofuran (THF)(66%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(56%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BB87766, QA/QC Batch: 201190 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(55%), Methyl ethyl ketone(59%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(66%), Methyl ethyl ketone(64%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

## Temperature Narration

The samples were received at 20C with cooling initiated.
No bias in the sample results are suspected due to temperature.

**Environmental Laboratories, Inc.**
**587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045**
**Tel. (860) 645-1102 Fax (860) 645-0823**

# RCP Certification Report

**May 31, 2012**

**SDG I.D.: GBB87997**

---

**Printed Name**
**Position:** Chemist
**Date:** 5/31/2012 2:59:32 PM

# CHAIN OF CUSTODY RECORD

**PHOENIX** Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp 20 ok Pg 1 of 2

**Data Delivery:**
☐ Fax #:
☒ Email: mmahoney@trcsolutions.com

Customer: TRC
Address: 21 Griffin Rd N
Windsor CT 06095

Project: Vernon Maint. Facility
Report to: Marya Mahoney
Invoice to: ~~Same~~ ConnDOT

Project P.O: 84986 X
Phone #: 860-298-6226
Fax #: 860-298-6399

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 5/18/12

**Matrix Code:**
**DW**=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
**SE**=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | VOCs | PAHs | ETPH | Lead | Soil VOA Vials (1) methanol (2) H2O | GL Soil container ( 1 ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is (3) HCl | GL Amber 1000ml (2) As is [ ] H2SO4 | PL As is [ ] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 87997 | FB051812 | W | 5/18/12 | 0820 | X | X | X | X | X | X | | X | X | | | X | | |
| 87998 | SB-1(10-12) | S | ↓ | 0830 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 87999 | SB-2(10-11) | S | ↓ | 0905 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88000 | SB-3(10-12) | S | ↓ | 0930 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88001 | SB-4(12-14) | S | ↓ | 1010 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | (2) | | | | | |
| 88002 | SB-5(12-14) | S | ↓ | 1040 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88003 | SB-7(12-14) | S | ↓ | 1155 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88004 | SB-8(12-14) | S | ↓ | 1300 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88005 | SB-9(10-12) | S | ↓ | 1340 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88006 | SB-10(10-12) | S | ↓ | 1420 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88007 | SB-11(12-14) | S | ↓ | 1500 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |
| 88008 | SB-11A(12-14) | S | ↓ | 1505 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 5/18/12 | 16:29 |
| | | | |
| | | | |

**Comments, Special Requirements or Regulations:**
X Pricing per DAS contract 09PSX0054 under P.O. # 84886

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

**RI**
☐ Direct Exposure (Residential)
☐ GW
☐ Other

**CT**
☒ RCP Cert
☒ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

**MA**
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

**State where samples were collected:** CT

**Data Format**
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

**Data Package**
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

**Friday, June 08, 2012**

**Attn: Marya Mahoney**
**TRC Environmental Corp.**
**21 Griffin Rd North**
**Windsor, CT 06095**

**Project ID: VERNON MAINT FACILITY**
**Sample ID#s: BB92415 - BB92423**

**This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.**

**This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.**

**A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.**

**If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #MA-CT-007**
**ME Lab Registration #CT-007**
**NH Lab Registration #213693-A,B**
**NJ Lab Registration #CT-003**
**NY Lab Registration #11301**
**PA Lab Registration #68-03530**
**RI Lab Registration #63**
**VT Lab Registration #VT11301**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 8:15 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92415

Project ID: VERNON MAINT FACILITY

Client ID: FB 20120531

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 63 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: FB 20120531

Phoenix I.D.: BB92415

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 99 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 85 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Pyrene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 100 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 75 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 81 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 78 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 108 | | % | 06/05/12 | | DD | 15 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Phenanthrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 100 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 75 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 81 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 78 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 108 | | % | 06/05/12 | | DD | 15 - 130 % |

Project ID: VERNON MAINT FACILITY
Client ID: FB 20120531

Phoenix I.D.: BB92415

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 10:00 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92416

Project ID: VERNON MAINT FACILITY

Client ID: MW-1

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 80 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-1

Phoenix I.D.: BB92416

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 101 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 87 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 102 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-1

Phoenix I.D.: BB92416

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Fluoranthene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 103 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 78 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 72 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 80 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | <5 | | % | 06/05/12 | | DD | 15 - 130 % | 3 |
| % Terphenyl-d14 | 34 | | % | 06/05/12 | | DD | 15 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 103 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 78 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 72 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 80 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | <5 | | % | 06/05/12 | | DD | 15 - 130 % | 3 |
| % Terphenyl-d14 | 34 | | % | 06/05/12 | | DD | 15 - 130 % | |

Project ID: VERNON MAINT FACILITY
Client ID: MW-1

Phoenix I.D.: BB92416

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

Comments:

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 11:40 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92417

Project ID: VERNON MAINT FACILITY

Client ID: MW-7

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 75 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-7

Phoenix I.D.: BB92417

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-7

Phoenix I.D.: BB92417

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 101 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 86 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 103 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-7

Phoenix I.D.: BB92417

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Pyrene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 115 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 70 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 70 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 74 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 99 | | % | 06/05/12 | | DD | 15 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Phenanthrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 115 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 70 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 70 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 74 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 99 | | % | 06/05/12 | | DD | 15 - 130 % |

Project ID: VERNON MAINT FACILITY
Client ID: MW-7

Phoenix I.D.: BB92417

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 12:30 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92418

Project ID: VERNON MAINT FACILITY

Client ID: MW-8

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | 0.46 | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ** | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 67 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-8

Phoenix I.D.: BB92418

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-8

Phoenix I.D.: BB92418

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 102 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 83 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 102 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-8

Phoenix I.D.: BB92418

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Pyrene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 122 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 73 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 75 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 76 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 103 | | % | 06/05/12 | | DD | 15 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Phenanthrene | 0.15 | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 122 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 73 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 75 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 78 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 76 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 103 | | % | 06/05/12 | | DD | 15 - 130 % |

Project ID: VERNON MAINT FACILITY

Client ID: MW-8

Phoenix I.D.: BB92418

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards,
but contains a distribution in the C9 to C24 range. The sample was quantitated against a C9-C36 standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**

**June 08, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 13:50 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92419

Project ID: VERNON MAINT FACILITY

Client ID: MW-16

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | 0.003 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/06/12 | | F/D/K | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 82 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
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Phoenix I.D.: BB92419

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
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Phoenix I.D.: BB92419

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 97 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 103 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 86 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/08/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/08/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/08/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/08/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-16

Phoenix I.D.: BB92419

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 06/08/12 | | DD | SW8270 |
| Pyrene | ND | 5.0 | ug/L | 06/08/12 | | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 25 | | % | 06/08/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 63 | | % | 06/08/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 21 | | % | 06/08/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 66 | | % | 06/08/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 25 | | % | 06/08/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 85 | | % | 06/08/12 | | DD | 15 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Benz(a)anthracene | 0.06 | 0.040 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Chrysene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Phenanthrene | ND | 0.050 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 06/08/12 | | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 25 | | % | 06/08/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 63 | | % | 06/08/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 21 | | % | 06/08/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 66 | | % | 06/08/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 25 | | % | 06/08/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 85 | | % | 06/08/12 | | DD | 15 - 130 % |

Project ID: VERNON MAINT FACILITY
Client ID: MW-16

Phoenix I.D.: BB92419

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

*For semivolatiles, poor surrogate recovery was observed. Sample was re-extracted with similar results. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 15:10 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92420

Project ID: VERNON MAINT FACILITY

Client ID: MW-10

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 67 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-10

Phoenix I.D.: BB92420

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-10

Phoenix I.D.: BB92420

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 100 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 86 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-10

Phoenix I.D.: BB92420

| Parameter | Result | RL | Units | Date | Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Fluoranthene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Fluorene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Isophorone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Naphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Nitrobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| Phenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 | |
| Pyrene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 106 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 72 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 52 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 12 | | % | 06/05/12 | | DD | 15 - 130 % | 3 |
| % Terphenyl-d14 | 91 | | % | 06/05/12 | | DD | 15 - 130 % | |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Phenanthrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) | |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 106 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 72 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % 2-Fluorophenol | 52 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % | |
| % Phenol-d5 | 12 | | % | 06/05/12 | | DD | 15 - 130 % | 3 |
| % Terphenyl-d14 | 91 | | % | 06/05/12 | | DD | 15 - 130 % | |

Project ID: VERNON MAINT FACILITY
Client ID: MW-10

Phoenix I.D.: BB92420

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

3 = This parameter exceeds laboratory specified limits.

Comments:

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 16:25 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92421

Project ID: VERNON MAINT FACILITY

Client ID: MW-15

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/02/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.070 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 81 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-15

Phoenix I.D.: BB92421

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-15

Phoenix I.D.: BB92421

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 102 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 85 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/05/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/05/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-15

Phoenix I.D.: BB92421

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 06/05/12 | | DD | SW8270 |
| Pyrene | ND | 5.0 | ug/L | 06/05/12 | | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 74 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 82 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 110 | | % | 06/05/12 | | DD | 15 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Phenanthrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 113 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 74 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 82 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 110 | | % | 06/05/12 | | DD | 15 - 130 % |

Project ID: VERNON MAINT FACILITY
Client ID: MW-15

Phoenix I.D.: BB92421

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 16:40 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92422

Project ID: VERNON MAINT FACILITY

Client ID: MW-20

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Lead | < 0.002 | 0.002 | mg/L | 06/03/12 | | LK | 6010/200.7 |
| Total Metals Digestion | Completed | | | 05/31/12 | | AG | |
| Extraction of CT ETPH | Completed | | | 06/01/12 | | F/D | 3510/3520 |
| Semi-Volatile Extraction | Completed | | | 06/01/12 | | F/D | SW3520 |
| **TPH by GC (Extractable Products)** | | | | | | | |
| Ext. Petroleum HC | ND | 0.074 | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| Identification | ND | | mg/L | 06/03/12 | | JRB | CTETPH/8015DRO |
| **QA/QC Surrogates** | | | | | | | |
| % n-Pentacosane | 58 | | % | 06/03/12 | | JRB | 50 - 150 % |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-20

Phoenix I.D.: BB92422

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-20

Phoenix I.D.: BB92422

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 96 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 103 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 86 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 99 | | % | 06/01/12 | | R/T | 70 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 06/06/12 | | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 06/06/12 | | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 06/06/12 | | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Azobenzene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 06/06/12 | | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |

Project ID: VERNON MAINT FACILITY
Client ID: MW-20

Phoenix I.D.: BB92422

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 06/06/12 | | DD | SW8270 |
| Pyrene | ND | 5.0 | ug/L | 06/06/12 | | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | % | 06/06/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 71 | | % | 06/06/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 70 | | % | 06/06/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 77 | | % | 06/06/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 76 | | % | 06/06/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 106 | | % | 06/06/12 | | DD | 15 - 130 % |
| **Semivolatiles** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benz(a)anthracene | ND | 0.040 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(a)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Chrysene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Phenanthrene | ND | 0.050 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 06/05/12 | | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 71 | | % | 06/05/12 | | DD | 15 - 130 % |
| % 2-Fluorophenol | 70 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 77 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Phenol-d5 | 76 | | % | 06/05/12 | | DD | 15 - 130 % |
| % Terphenyl-d14 | 106 | | % | 06/05/12 | | DD | 15 - 130 % |

Project ID: VERNON MAINT FACILITY
Client ID: MW-20

Phoenix I.D.: BB92422

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 08, 2012

FOR: Attn: Marya Mahoney
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | WATER | Collected by: | | 05/31/12 | 8:00 |
| Location Code: | TRC-DAS | Received by: | SW | 05/31/12 | 17:51 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 84986 | | | | |

## Laboratory Data

SDG ID: GBB92415
Phoenix ID: BB92423

Project ID: VERNON MAINT FACILITY

Client ID: TB-20120531

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Hexanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Acetone | ND | 25 | ug/L | 06/01/12 | | R/T | SW8260 |

Project ID: VERNON MAINT FACILITY
Client ID: TB-20120531

Phoenix I.D.: BB92423

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Benzene | ND | 0.70 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromochloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromodichloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromoform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Bromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon Disulfide | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Carbon tetrachloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chlorobenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloroform | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Chloromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromochloromethane | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromoethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dibromomethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Ethylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 06/01/12 | | R/T | SW8260 |
| Isopropylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| m&p-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Methylene chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Naphthalene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| n-Propylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| o-Xylene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| sec-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Styrene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| tert-Butylbenzene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrachloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Toluene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Total Xylenes | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 06/01/12 | | R/T | SW8260 |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichloroethene | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| Vinyl chloride | ND | 1.0 | ug/L | 06/01/12 | | R/T | SW8260 |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Bromofluorobenzene | 104 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Dibromofluoromethane | 89 | | % | 06/01/12 | | R/T | 70 - 130 % |
| % Toluene-d8 | 103 | | % | 06/01/12 | | R/T | 70 - 130 % |

Project ID: VERNON MAINT FACILITY
Client ID: TB-20120531

Phoenix I.D.: BB92423

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**
**June 08, 2012**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

June 08, 2012

## QA/QC Data

SDG I.D.: GBB92415

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 201805, QC Sample No: BB92309 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422) | | | | | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | | | | | |
| Lead | BDL | 0.004 | <0.002 | NC | 99.8 | 105 | 5.1 | 95.3 | 102 | 6.8 | 75 - 125 | 20 |

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# QA/QC Report

June 08, 2012

## QA/QC Data

SDG I.D.: GBB92415

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 201692, QC Sample No: BB91160 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422) | | | | | | | | | |
| **TPH by GC (Extractable Products) - Water** | | | | | | | | | |
| Ext. Petroleum HC | ND | 86 | 105 | 19.9 | | | | 50 - 150 | 20 |
| % n-Pentacosane | 77 | 84 | 102 | 19.4 | | | | 50 - 150 | 20 |
| Comment: | | | | | | | | | |
| A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate. | | | | | | | | | |
| QA/QC Batch 201871, QC Sample No: BB92033 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422, BB92423) | | | | | | | | | |
| **Volatiles - Water** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 91 | 94 | 3.2 | 89 | 90 | 1.1 | 70 - 130 | 30 |
| 1,1,1-Trichloroethane | ND | 100 | 104 | 3.9 | 106 | 106 | 0.0 | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 113 | 111 | 1.8 | 109 | 113 | 3.6 | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 99 | 102 | 3.0 | 93 | 99 | 6.3 | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 104 | 108 | 3.8 | 108 | 108 | 0.0 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 89 | 93 | 4.4 | 103 | 104 | 1.0 | 70 - 130 | 30 |
| 1,1-Dichloropropene | ND | 112 | 116 | 3.5 | 117 | 116 | 0.9 | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 108 | 106 | 1.9 | 92 | 102 | 10.3 | 70 - 130 | 30 |
| 1,2,3-Trichloropropane | ND | 105 | 104 | 1.0 | 99 | 107 | 7.8 | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 109 | 108 | 0.9 | 97 | 107 | 9.8 | 70 - 130 | 30 |
| 1,2,4-Trimethylbenzene | ND | 109 | 111 | 1.8 | 108 | 110 | 1.8 | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 101 | 99 | 2.0 | 88 | 96 | 8.7 | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 88 | 92 | 4.4 | 89 | 94 | 5.5 | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 120 | 118 | 1.7 | 118 | 122 | 3.3 | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 108 | 110 | 1.8 | 105 | 110 | 4.7 | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 109 | 111 | 1.8 | 109 | 111 | 1.8 | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 102 | 101 | 1.0 | 100 | 104 | 3.9 | 70 - 130 | 30 |
| 1,3-Dichloropropane | ND | 116 | 116 | 0.0 | 114 | 116 | 1.7 | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 83 | 84 | 1.2 | 85 | 88 | 3.5 | 70 - 130 | 30 |
| 2,2-Dichloropropane | ND | 113 | 118 | 4.3 | 94 | 94 | 0.0 | 70 - 130 | 30 |
| 2-Chlorotoluene | ND | 110 | 111 | 0.9 | 111 | 111 | 0.0 | 70 - 130 | 30 |
| 2-Hexanone | ND | 119 | 118 | 0.8 | 102 | 113 | 10.2 | 70 - 130 | 30 |
| 2-Isopropyltoluene | ND | 100 | 105 | 4.9 | 103 | 102 | 1.0 | 70 - 130 | 30 |
| 4-Chlorotoluene | ND | 104 | 106 | 1.9 | 106 | 108 | 1.9 | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 108 | 109 | 0.9 | 96 | 100 | 4.1 | 70 - 130 | 30 |
| Acetone | ND | 104 | 106 | 1.9 | 94 | 115 | 20.1 | 70 - 130 | 30 |
| Acrylonitrile | ND | 100 | 105 | 4.9 | 95 | 107 | 11.9 | 70 - 130 | 30 |
| Benzene | ND | 108 | 111 | 2.7 | 107 | 109 | 1.9 | 70 - 130 | 30 |
| Bromobenzene | ND | 113 | 113 | 0.0 | 109 | 112 | 2.7 | 70 - 130 | 30 |
| Bromochloromethane | ND | 93 | 98 | 5.2 | 95 | 98 | 3.1 | 70 - 130 | 30 |
| Bromodichloromethane | ND | 103 | 104 | 1.0 | 101 | 105 | 3.9 | 70 - 130 | 30 |
| Bromoform | ND | 70 | 71 | 1.4 | 71 | 71 | 0.0 | 70 - 130 | 30 |
| Bromomethane | ND | 85 | 89 | 4.6 | 93 | 102 | 9.2 | 70 - 130 | 30 |
| Carbon Disulfide | ND | 90 | 96 | 6.5 | 102 | 101 | 1.0 | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBB92415

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | ND | 106 | 110 | 3.7 | 114 | 116 | 1.7 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 81 | 84 | 3.6 | 84 | 84 | 0.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 97 | 97 | 0.0 | 117 | 115 | 1.7 | 70 - 130 | 30 | |
| Chloroform | ND | 101 | 106 | 4.8 | 105 | 105 | 0.0 | 70 - 130 | 30 | |
| Chloromethane | ND | 92 | 97 | 5.3 | 117 | 118 | 0.9 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 97 | 102 | 5.0 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 102 | 104 | 1.9 | 96 | 101 | 5.1 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 107 | 109 | 1.9 | 107 | 110 | 2.8 | 70 - 130 | 30 | |
| Dibromoethane | ND | 99 | 101 | 2.0 | 94 | 100 | 6.2 | 70 - 130 | 30 | |
| Dibromomethane | ND | 103 | 106 | 2.9 | 100 | 104 | 3.9 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 70 | 77 | 9.5 | 112 | 115 | 2.6 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 73 | 76 | 4.0 | 75 | 75 | 0.0 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 103 | 103 | 0.0 | 101 | 103 | 2.0 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 108 | 110 | 1.8 | 107 | 108 | 0.9 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 81 | 82 | 1.2 | 82 | 81 | 1.2 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 95 | 96 | 1.0 | 96 | 102 | 6.1 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 107 | 107 | 0.0 | 97 | 102 | 5.0 | 70 - 130 | 30 | |
| Methylene chloride | ND | 77 | 81 | 5.1 | 81 | 83 | 2.4 | 70 - 130 | 30 | |
| Naphthalene | ND | 118 | 118 | 0.0 | 99 | 114 | 14.1 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 109 | 111 | 1.8 | 104 | 108 | 3.8 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 99 | 99 | 0.0 | 101 | 100 | 1.0 | 70 - 130 | 30 | |
| o-Xylene | ND | 77 | 79 | 2.6 | 80 | 81 | 1.2 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 114 | 115 | 0.9 | 110 | 109 | 0.9 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 102 | 104 | 1.9 | 106 | 105 | 0.9 | 70 - 130 | 30 | |
| Styrene | ND | 65 | 68 | 4.5 | 66 | 67 | 1.5 | 70 - 130 | 30 | l,m |
| tert-Butylbenzene | ND | 107 | 109 | 1.9 | 110 | 110 | 0.0 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 108 | 111 | 2.7 | 113 | 112 | 0.9 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 112 | 113 | 0.9 | 105 | 113 | 7.3 | 70 - 130 | 30 | |
| Toluene | ND | 99 | 100 | 1.0 | 95 | 97 | 2.1 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 94 | 100 | 6.2 | 102 | 102 | 0.0 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 97 | 101 | 4.0 | 93 | 97 | 4.2 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 119 | 119 | 0.0 | 90 | 98 | 8.5 | 70 - 130 | 30 | |
| Trichloroethene | ND | 97 | 100 | 3.0 | 97 | 99 | 2.0 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 103 | 110 | 6.6 | 116 | 118 | 1.7 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 82 | 91 | 10.4 | 92 | 95 | 3.2 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 91 | 98 | 7.4 | 113 | 113 | 0.0 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 100 | 101 | 101 | 0.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 102 | 115 | 116 | 0.9 | 117 | 116 | 0.9 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 86 | 85 | 87 | 2.3 | 87 | 88 | 1.1 | 70 - 130 | 30 | |
| % Toluene-d8 | 102 | 104 | 102 | 1.9 | 102 | 102 | 0.0 | 70 - 130 | 30 | |

Comment:

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 201872, QC Sample No: BB92415 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422)

## Semivolatiles - Water

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 90 | 89 | 1.1 | | | | 30 - 130 | 20 | |
| 1,2,4-Trichlorobenzene | ND | 79 | 80 | 1.3 | | | | 30 - 130 | 20 | |
| 1,2-Dichlorobenzene | ND | 79 | 78 | 1.3 | | | | 30 - 130 | 20 | |
| 1,3-Dichlorobenzene | ND | 75 | 76 | 1.3 | | | | 30 - 130 | 20 | |
| 1,4-Dichlorobenzene | ND | 78 | 79 | 1.3 | | | | 30 - 130 | 20 | |
| 2,4,5-Trichlorophenol | ND | 84 | 86 | 2.4 | | | | 30 - 130 | 20 | |
| 2,4,6-Trichlorophenol | ND | 91 | 95 | 4.3 | | | | 30 - 130 | 20 | |

# QA/QC Data

SDG I.D.: GBB92415

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ND | 93 | 92 | 1.1 | | | | 30 - 130 | 20 | |
| 2,4-Dimethylphenol | ND | 48 | 51 | 6.1 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrophenol | ND | 99 | 91 | 8.4 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrotoluene | ND | 92 | 91 | 1.1 | | | | 30 - 130 | 20 | |
| 2,6-Dinitrotoluene | ND | 91 | 84 | 8.0 | | | | 30 - 130 | 20 | |
| 2-Chloronaphthalene | ND | 86 | 83 | 3.6 | | | | 30 - 130 | 20 | |
| 2-Chlorophenol | ND | 79 | 78 | 1.3 | | | | 30 - 130 | 20 | |
| 2-Methylnaphthalene | ND | 85 | 87 | 2.3 | | | | 30 - 130 | 20 | |
| 2-Methylphenol (o-cresol) | ND | 78 | 80 | 2.5 | | | | 30 - 130 | 20 | |
| 2-Nitroaniline | ND | >150 | >150 | NC | | | | 30 - 130 | 20 | I |
| 2-Nitrophenol | ND | 89 | 91 | 2.2 | | | | 30 - 130 | 20 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 86 | 87 | 1.2 | | | | 30 - 130 | 20 | |
| 3,3'-Dichlorobenzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| 3-Nitroaniline | ND | >150 | >150 | NC | | | | 30 - 130 | 20 | I |
| 4,6-Dinitro-2-methylphenol | ND | 108 | 106 | 1.9 | | | | 30 - 130 | 20 | |
| 4-Bromophenyl phenyl ether | ND | 85 | 88 | 3.5 | | | | 30 - 130 | 20 | |
| 4-Chloro-3-methylphenol | ND | 97 | 94 | 3.1 | | | | 30 - 130 | 20 | |
| 4-Chloroaniline | ND | >150 | >150 | NC | | | | 30 - 130 | 20 | I |
| 4-Chlorophenyl phenyl ether | ND | 89 | 89 | 0.0 | | | | 30 - 130 | 20 | |
| 4-Nitroaniline | ND | 90 | 90 | 0.0 | | | | 30 - 130 | 20 | |
| 4-Nitrophenol | ND | 109 | 106 | 2.8 | | | | 30 - 130 | 20 | |
| Acenaphthene | ND | 84 | 84 | 0.0 | | | | 30 - 130 | 20 | |
| Acenaphthylene | ND | 81 | 79 | 2.5 | | | | 30 - 130 | 20 | |
| Acetophenone | ND | 87 | 86 | 1.2 | | | | 30 - 130 | 20 | |
| Aniline | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Anthracene | ND | 84 | 84 | 0.0 | | | | 30 - 130 | 20 | |
| Azobenzene | ND | 83 | 84 | 1.2 | | | | 30 - 130 | 20 | |
| Benz(a)anthracene | ND | 89 | 89 | 0.0 | | | | 30 - 130 | 20 | |
| Benzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Benzo(a)pyrene | ND | 66 | 71 | 7.3 | | | | 30 - 130 | 20 | |
| Benzo(b)fluoranthene | ND | 70 | 76 | 8.2 | | | | 30 - 130 | 20 | |
| Benzo(ghi)perylene | ND | 84 | 85 | 1.2 | | | | 30 - 130 | 20 | |
| Benzo(k)fluoranthene | ND | 67 | 73 | 8.6 | | | | 30 - 130 | 20 | |
| Benzoic acid | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Benzyl butyl phthalate | ND | 76 | 77 | 1.3 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethoxy)methane | ND | 86 | 89 | 3.4 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethyl)ether | ND | 74 | 75 | 1.3 | | | | 30 - 130 | 20 | |
| Bis(2-chloroisopropyl)ether | ND | 77 | 78 | 1.3 | | | | 30 - 130 | 20 | |
| Bis(2-ethylhexyl)phthalate | ND | 75 | 79 | 5.2 | | | | 30 - 130 | 20 | |
| Carbazole | ND | 115 | 122 | 5.9 | | | | 30 - 130 | 20 | |
| Chrysene | ND | 78 | 83 | 6.2 | | | | 30 - 130 | 20 | |
| Dibenz(a,h)anthracene | ND | 84 | 85 | 1.2 | | | | 30 - 130 | 20 | |
| Dibenzofuran | ND | 84 | 85 | 1.2 | | | | 30 - 130 | 20 | |
| Diethyl phthalate | ND | 92 | 94 | 2.2 | | | | 30 - 130 | 20 | |
| Dimethylphthalate | ND | 91 | 91 | 0.0 | | | | 30 - 130 | 20 | |
| Di-n-butylphthalate | ND | 88 | 95 | 7.7 | | | | 30 - 130 | 20 | |
| Di-n-octylphthalate | ND | 77 | 83 | 7.5 | | | | 30 - 130 | 20 | |
| Fluoranthene | ND | 83 | 85 | 2.4 | | | | 30 - 130 | 20 | |
| Fluorene | ND | 89 | 87 | 2.3 | | | | 30 - 130 | 20 | |
| Hexachlorobenzene | ND | 82 | 82 | 0.0 | | | | 30 - 130 | 20 | |
| Hexachlorobutadiene | ND | 86 | 89 | 3.4 | | | | 30 - 130 | 20 | |
| Hexachlorocyclopentadiene | ND | 72 | 67 | 7.2 | | | | 30 - 130 | 20 | |
| Hexachloroethane | ND | 77 | 76 | 1.3 | | | | 30 - 130 | 20 | |

# QA/QC Data

SDG I.D.: GBB92415

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | ND | 84 | 84 | 0.0 | | | | 30 - 130 | 20 | |
| Isophorone | ND | 85 | 89 | 4.6 | | | | 30 - 130 | 20 | |
| Naphthalene | ND | 84 | 85 | 1.2 | | | | 30 - 130 | 20 | |
| Nitrobenzene | ND | 85 | 87 | 2.3 | | | | 30 - 130 | 20 | |
| N-Nitrosodimethylamine | ND | 60 | 59 | 1.7 | | | | 30 - 130 | 20 | |
| N-Nitrosodi-n-propylamine | ND | 86 | 84 | 2.4 | | | | 30 - 130 | 20 | |
| N-Nitrosodiphenylamine | ND | 109 | 112 | 2.7 | | | | 30 - 130 | 20 | |
| Pentachloronitrobenzene | ND | >150 | >150 | NC | | | | 30 - 130 | 20 | I |
| Pentachlorophenol | ND | 95 | 100 | 5.1 | | | | 30 - 130 | 20 | |
| Phenanthrene | ND | 85 | 88 | 3.5 | | | | 30 - 130 | 20 | |
| Phenol | ND | 79 | 87 | 9.6 | | | | 30 - 130 | 20 | |
| Pyrene | ND | 84 | 89 | 5.8 | | | | 30 - 130 | 20 | |
| Pyridine | ND | 55 | 54 | 1.8 | | | | 30 - 130 | 20 | |
| % 2,4,6-Tribromophenol | 95 | 86 | 76 | 12.3 | | | | 15 - 130 | 20 | |
| % 2-Fluorobiphenyl | 73 | 76 | 75 | 1.3 | | | | 30 - 130 | 20 | |
| % 2-Fluorophenol | 68 | 58 | 58 | 0.0 | | | | 15 - 130 | 20 | |
| % Nitrobenzene-d5 | 80 | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| % Phenol-d5 | 72 | 71 | 69 | 2.9 | | | | 15 - 130 | 20 | |
| % Terphenyl-d14 | 105 | 81 | 88 | 8.3 | | | | 30 - 130 | 20 | |

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

I = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 08, 2012

# Sample Criteria Exceedences Report



Requested Criteria: GWP, SWP

**GBB92415**

| SampNo | LocCode | Acode | Phoenix Analyte | Criteria Units | ST | State Category | Criteria Name | Result | RL | Factored Criteria | Factored RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BB92415 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92415 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92415 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92415 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92416 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92416 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92416 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92416 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92417 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92417 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92417 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92417 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92418 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92418 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92418 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92418 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92418 | TRC-DAS | $8270-SIMR | Phenanthrene | ug/L | CT | Semivolatile Organic Comp | SWPC (µg/L) | 0.15 | 0.050 | 0.077 | 0.077 | ug/L |
| BB92419 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92419 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92419 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92419 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92420 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92420 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92420 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92420 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92421 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92421 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92421 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92421 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92422 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |
| BB92422 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |
| BB92422 | TRC-DAS | $8270-SIMFSR | Aniline | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 10 | 6 | 6 | ug/L |
| BB92422 | TRC-DAS | $8270-SIMFSR | 3,3'-Dichlorobenzidine | ug/L | CT | Semivolatile Organic Comp | GWPC (µg/L) | ND | 50 | 10 | 10 | ug/L |
| BB92423 | TRC-DAS | $8260GWR | Acrylonitrile | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 5.0 | 0.5 | 0.5 | ug/L |

# Sample Criteria Exceedences Report



Requested Criteria: GWP, SWP

**GBB92415**

| SampNo | LocCode | Acode | Phoenix Analyte | Criteria Units | ST | State Category | Criteria Name | Result | RL | Factored Criteria | Factored RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BB92423 | TRC-DAS | $8260GWR | Dibromoethane | ug/L | CT | Volatile Organic Compound | GWPC (µg/L) | ND | 1.0 | 0.05 | 0.05 | ug/L |

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

# Reasonable Confidence Protocol
# Laboratory Analysis QA/QC Certification Form

**Laboratory Name:** Phoenix Environmental Labs, Inc. **Client:** TRC-DAS

**Project Location:** VERNON MAINT FACILITY **Project Number:**

**Laboratory Sample ID(s):** BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422, BB92423

**Sampling Date(s):** 5/31/2012

**RCP Methods Used:**

☐ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

| | | |
|---|---|---|
| 1. | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents? | ☑ Yes ☐ No |
| 1a. | Were the method specified preservation and holding time requirements met? | ☑ Yes ☐ No |
| 1b. | EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods) | ☐ Yes ☐ No ☑ NA |
| 2. | Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)? | ☑ Yes ☐ No |
| 3. | Were samples received at an appropriate temperature (< 6 Degrees C)? | ☑ Yes ☐ No ☐ NA |
| 4. | Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOA Narration, VOA Narration. | ☐ Yes ☑ No |
| 5a. | Were reporting limits specified or referenced on the chain-of-custody? | ☑ Yes ☐ No |
| 5b. | Were these reporting limits met? | ☐ Yes ☑ No ☐ NA |
| 6. | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents? | ☐ Yes ☑ No ☐ NA |
| 7. | Are project-specific matrix spikes and laboratory duplicates included in the data set? | ☐ Yes ☑ No ☐ NA |

**Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".**

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

Authorized Signature: _____

Date: Friday, June 08, 2012

Printed Name: Greg Lawrence

Position: Assistant Lab Director

**Environmental Laboratories, Inc.**
**587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045**
**Tel. (860) 645-1102 Fax (860) 645-0823**

# RCP Certification Report

**June 08, 2012**

**SDG I.D.: GBB92415**

The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

Volatile 8260 analysis:
The reporting level for Acrylonitrile is above the GWP criteria.
Dibromoethane doesn't meet GWP criteria, this compound is analyzed by GC/ECD method 504 or 8011 when this criteria needs to be met.

8270 Semi-volatile Organics:
In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM) as well as 8270 full scan.
Pyridine was analyzed only by full scan and the reporting level does not meet GWP criteria.
Aniline and 3,3- Dichlorobenzidine reporting levels do not meet GWP criteria.

## ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Au-fid84 06/03/12-1 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C30, C36

**Printed Name** Jeff Bucko
**Position:** Chemist
**Date:** 6/3/2012

**QC Comments:** QC Batch 01692 05/30/12 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

### QC (Batch Specific)

---------- Sample No: BB91160, QA/QC Batch: 201692 ----------

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PHOENIX

**Environmental Laboratories, Inc.**
**587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045**
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

**June 08, 2012**

**SDG I.D.: GBB92415**

## ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Icp9 06/01/12-1 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

**Printed Name** Laura Kinnin
**Position:** Chemist
**Date:** 6/1/2012

**Instrument:** Icp9 06/02/12-1 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

**Printed Name** Laura Kinnin
**Position:** Chemist
**Date:** 6/2/2012

### QC (Batch Specific)

---------- Sample No: BB92309, QA/QC Batch: 201805 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

## SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

**The LCS/LCSD recovery for several compounds is above the upper range. These compounds were not reported in the samples, therefore no significant bias is suspected.**

**Instrument:** Chem06 06/05/12-2 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

PHOENIX

**Environmental Laboratories, Inc.**
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**Tel. (860) 645-1102 Fax (860) 645-0823**

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# RCP Certification Report

**June 08, 2012**

**SDG I.D.: GBB92415**

Initial Calibration (Chem06/SV_0601)
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: 4-chloroaniline, 3-nitroaniline, Carbazole, 3,3'-dichlorobenzidine

The following compounds failed to meet the minimum required response factor: 2-nitrophenol

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: N-Nitrosodimethylamine, Pyridine, 3-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Carbazole, Di-n-octylphthalate

**Printed Name** Damien Drobinski
**Position:** Chemist
**Date:** 6/5/2012

**Instrument:** Chem09 06/08/12-1 (BB92419)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem09/sv_0607):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: 3-nitroaniline, 2,4-dinitrophenol, 3,3'-dichlorobenzidine

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None

**Printed Name** Damien Drobinski
**Position:** Chemist
**Date:** 6/8/2012

**QC (Site Specific)**

---------- Sample No: BB92415, QA/QC Batch: 201872 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(>150%), 3-Nitroaniline(>150%), 4-Chloroaniline(>150%), Pentachloronitrobenzene(>150%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(>150%), 3-Nitroaniline(>150%), 4-Chloroaniline(>150%), Pentachloronitrobenzene(>150%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

**Environmental Laboratories, Inc.**
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

# RCP Certification Report

**June 08, 2012**

**SDG I.D.: GBB92415**

## SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Chem04 06/05/12-1 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0605):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Pentachlorophenol, Pentachloronitrobenzene

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Bis(2-ethylhexyl)phthalate

**Printed Name** Damien Drobinski
**Position:** Chemist
**Date:** 6/5/2012

**Instrument:** Chem04 06/08/12-1 (BB92419)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0605):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Pentachlorophenol, Pentachloronitrobenzene

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: N-nitrosodimethylamine, Acenaphthylene, Benzo(a)pyrene

**Printed Name** Damien Drobinski
**Position:** Chemist
**Date:** 6/8/2012

**Environmental Laboratories, Inc.**
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# RCP Certification Report

**June 08, 2012**

**SDG I.D.: GBB92415**

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

**The QC recovery for styrene is below the lower range, but within the method criteria. A slight low bias is possible.**

**Instrument:** Chem08 05/31/12-1 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422, BB92423)

S -Side
Initial Calibration(RCPS_0529:
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Methylene Chloride, Trans-1,4-dichloro-2-butene

Continuing Calibration Verification:
All SPCCs, CCCs and >80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds had % Deviations >30%:: trans-1,4-Dichloro-2-butene Tetrahydrofuran (THF)

**Printed Name** Tina Covensky
**Position:** Chemist
**Date:** 5/31/2012

**QC Comments:** QC Batch 01871 06/01/12 (BB92415, BB92416, BB92417, BB92418, BB92419, BB92420, BB92421, BB92422, BB92423)

A blank MS/MSD was analyzed with this batch.

### QC (Batch Specific)

---------- Sample No: BB92033, QA/QC Batch: 201871 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Styrene(65%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Styrene(68%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

# CHAIN OF CUSTODY RECORD

**PHOENIX** Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp 4 deg C w/ Ice Pg 1 of 1

**Data Delivery:**
☐ Fax #:
☒ Email: mmahoney@trcsolutions.com lbane@trcsolutions.com

Customer: TRC
Address: 21 Griffin Rd N, Windsor, CT 06095

Project: Vernon Maint. Facility
Report to: Marya Mahoney / Lian Bane
Invoice to: ConnDOT - Lian Bane

Project P.O: 84986
Phone #: 860-298-6226
Fax #: 860-298-6399

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 5/31/12

**Matrix Code:**
**DW**=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
**SE**=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

| PHOENIX USE ONLY SAMPLE # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | VOCs | SVOCs | ETPH | Metals | Soil VOA Vials [ ] methanol [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [X] HCl | GL Amber 1000ml [X] As is [ ] H2SO4 | PL As is [ ] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92415 | FB_20120531 | W | 5/31/12 | 0815 | X | X | X | X | | | | | 3 | 3 | | | 1 | |
| 92416 | MW-1 | ↓ | ↓ | 1000 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92417 | MW-7 | ↓ | ↓ | 1140 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92418 | MW-8 | ↓ | ↓ | 1230 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92419 | MW-16 | ↓ | ↓ | 1350 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92420 | MW-10 | ↓ | ↓ | 1510 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92421 | MW-15 | ↓ | ↓ | 1625 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92422 | MW-20 | ↓ | ↓ | 1640 | ↓ | ↓ | ↓ | ↓ | | | | | 3 | 3 | | | 1 | |
| 92423 | TB_20120531 | ↓ | ↓ | 0800 | ↓ | | | | | | | | 2 | | | | | |
| | | | | | | | | | | | | | 26 | 24 | | | 8 | (58) |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 5-31-12 | 17:51 |

**Comments, Special Requirements or Regulations:**
* Pricing per DAS contract 09PSX0054 under P.O. # 84986

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

**RI**
☐ Direct Exposure (Residential)
☐ GW
☐ Other

**CT**
☒ RCP Cert
☒ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

**MA**
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

**State where samples were collected:** CT

**Data Format**
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

**Data Package**
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

TRC